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21 2025 Student Art and Design Exhibition
3:30 - 5 p.m.

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# *Schedule of Events*

| | | |
|---|---|---|
| **8:30 – 8:50 a.m.** | **Welcome & University Awards Ceremony**<br>*Dr. Katherine Fell*<br>*Dr. Darin E. Fields* | **WTS** |
| **9 – 10:10 a.m.** | **College of Education**<br>*Dr. Julie McIntosh*<br>Alumni Speaker and Awards<br>*Mr. Nicholas Rackley* | **Old Main, Ritz** |
| **9 – 10:10 a.m.** | **College of Health Professions**<br>*Dr. Richard States*<br>Alumni Speaker and Awards<br>*Ms. Christina McFarland* | **Davis, 2225** |
| **9 – 10:10 a.m.** | **College of Sciences**<br>*Dr. Lok C. Lew Yan Voon*<br>Alumni Speaker and Awards<br>*Mr. Trevor Gillig* | **WTS** |
| **10:15 – 11:25 a.m.** | **College of Business**<br>*Dr. Kirby Overton*<br>Alumni Speaker and Awards<br>*Dr. Johnnie Jackson* | **Old Main, Ritz** |
| **10:15 – 11:25 a.m.** | **College of Arts, Humanities, and**<br>Social Sciences<br>*Dr. Ron Tulley*<br>Alumni Speaker and Awards<br>*Mr. Michael Yunis* | **WTS** |
| **10:15 – 11:25 a.m.** | **College of Pharmacy**<br>*Dr. Debra Parker*<br>Alumni Speaker and Awards<br>*Dr. Robert E. Braylock* | **Davis, 2225** |
| **1 – 3:20 p.m.** | **Oral Presentations** | **Davis & CBSL** |
| **3:30 – 5 p.m.** | **2025 Student Art and Design Exhibition** | **GFAP, Lea Gallery** |
| **3:30 – 5 p.m.** | **Poster Presentations** | **Croy** |
| **3:30 – 5:20 p.m.** | **Reception** | **Croy** |

# *University Awards Ceremony*

**Founders' Son and Daughter Awards**
*Presented by: Brandi Laurita, Vice President for Student Affairs and Athletics*
Megan Ketner and Mason Boatwright

**Kuenzli-Harada Scholarship**
*Presented by: Kathy Patton*
Lidia Laskova

**Mancuso Award**
*Presented by: Jim Givens, Director of Athletics*
Kylie Ray and Noah Fisher

**Student Employee of the Year**
*Presented by: Jared England*

**Undergraduate Nominees**

| | |
|---|---|
| Elizabeth Giese | Community Service |
| Jillian Baracz | Community Service |
| Marisa Prisco | Community Service |
| Paige Grum | Community Service |
| Richard Mast | Community Service |
| Malea Bess | Community Service |
| Alireza Majidi | Leadership |
| Jacob Holmes | Leadership |
| Luigi Bove | Leadership |
| Deven Stover | Leadership |
| Justin Reed | Leadership |
| Grant Goodfellow | Critical Thinking |
| Abbey Burke | Critical Thinking |
| Josephina Owens | Critical Thinking |
| MengTing Chung | Technology & Innovation |
| David May | Diversity & Inclusion |

**Graduate Nominees**
Simeon Joseph
Madison Mlsna
Ashlyn Coleman
Sean Steele
Olivia Hyatt

**Undergraduate Winners**

| | |
|---|---|
| MengTing Chung | Technology & Innovation |
| Alireza Majidi | Leadership |
| Abbey Burke | Critical Thinking |
| Elizabeth Giese | Community Service |
| David May | Diversity & Inclusion |
| Abbey Burke | Overall SEOTY |

**Graduate Winner**
Sean Steele

**The Honor Society of Phi Kappa Phi Chapter 310**

***Freshman***

| | |
|---|---|
| Abdallah, Lola | Lubera, Ariana |
| Amato, Anita | Routzahn, Caleigh |
| Auer, Grace | Russ, Michael |
| Benway, Grace | Stevens, Sebastian Black |
| Zanri | Stratford, Cayden |
| Delongchamp, Peyton | Strohmaier, Benjamin |
| Farabee, Andelen | Swigert, Lily |
| Franko, Alexandra | Unger, Helen |
| Gelman, Adam | Woods, Kenzie |
| Hattingh, Justin | Wright, Cameron |
| Jubik, Jessica | Young, Kyan |
| Leganik, Lilly | |

***Sophomores***

| | |
|---|---|
| Arbogast, Megan | Hiser, Hayden |
| Auvil, Ross | Huth, Alexa |
| Bates, Kelsey | Kerecz, Emily |
| Binkley, Hannah | Kinsinger, Madison |
| Blair, Tyler | Lewis, Moira |
| Brostrom, Allyson | Long, Asher |
| Brown, Desmond | Moore, Haylee |
| Chester, Sophia | Neville, Gage |
| Crowe, Morgan | Niese, Kayla |
| Dalton, Isabella | Novinsky, Aidan |
| Diaz, Alexander | Owens, Josephina |
| Diller, Zach | Peters, Kara |
| Dodson, Cody | Ringger, Mia |
| Egerer, Leonard | Roth, Cahle |
| Eldridge, Alaina | Schiefer, Lilly |
| Fedak, Ava | Soper, Carson |
| Fierbaugh, Ava | Steele, Gavrielle |
| Fry, Evay | Steiner, Grayce |
| Gleason, Mary | Stevens, Kendra |
| Guerrieri, Allison | Stojcevski, Mariana |
| Hall, Benjamin Phillip | Wasik, Hannah |
| Hancock, Eva | Williams, Jonathan |
| Held, Hyacinth | |

# *College Honors and Awards*

## College of Education Honors and Awards
9:00 – 10:10 a.m. – Old Main, Ritz

**Outstanding Teacher Education Graduate Primary**
*Presented by: Dr. Carrie Wysocki*
Cassidy Wachtman

**Outstanding Teacher Education Graduate Intervention Specialist**
*Presented by: Dr. Carrie Wysocki*
Hannah Baker

**Outstanding Teacher Education Graduate Dual Primary/Intervention Specialist**
*Presented by: Dr. Carrie Wysocki*
Maya Maurer

**Outstanding Teacher Education Graduate Middle Childhood**
*Presented by: Dr. Antonio Davis*
Sydney Hogue

**Outstanding Teacher Education Graduate Adolescent/ Young Adult**
*Presented by: Dr. Antonio Davis*
Aurel Toska

**Outstanding Teacher Education Graduate Multi-Age**
*Presented by: Dr. Antonio Davis*
Abigail Lammers

**Outstanding Teacher Education Candidate Post-Baccalaureate**
*Presented by: Dr. Melissa Recker*
Katelyn Breece

**Outstanding Master of Arts in Education Student Award**
*Presented by: Dr. Scott Grant*
Alex Vicars

**Outstanding Doctorate in Education Student Award**
*Presented by: Dr. Jennifer Theriault*
Angie Huber

**DeBow and Catherine Freed Academic Scholars Award**
*Presented by: Dr. Julie McIntosh*
Allison Hutchins

***Kappa Delta Pi New Initiates***
*Presented by: Dr. Munger and Dr. Theriault*
Ashley Heusinkveld
Sierra Garcia
Sydney Hogue

***Kappa Delta Pi Graduating Seniors***
*Presented by: Dr. Munger and Dr. Theriault*
Kaitlin Bunda
Collin Theriault
Cassidy Wachtman
Sydney Hogue

## College of Health Professions Honors and Awards
9:00 – 10:10 a.m. – Davis, 2225

**DeBow and Catherine Freed Academic Scholars Award**
*Presented by: Dr. Richard B. States*
Taylor Ward

**Outstanding Student Award in Anatomy, Neuroscience, and Health Sciences Department**
*Presented by: Dr. Cara Davies*
Ashlyn Bohman

**Outstanding Student Award in Strength and Conditioning**
*Presented by: Mr. Troy DeLamtre*
Augustin Forester

**Outstanding Student Award in Wellness And Health Promotion**
*Presented by: Ms. Tina Fournier*
Riley Samples

**Mu Iota Chapter of Lambda Nu Inductees Honor Society for Radiologic and Imaging Sciences**
*Presented by: Dr. Susan Watters*
Allison Castle
Grace Sarmiento
Brady Thomas

**Outstanding Student Award in Diagnostic Medical Sonography**
*Presented by: Dr. Susan Watters*
Erin Cordell

**Outstanding Student Award in Echocardiography**
*Presented by: Dr. Susan Watters*
Aliyah Badgett

**Outstanding Student Awards in Nuclear Medicine Technology**
*Presented by: Dr. Susan Watters*
Allison Castle
Turner Bridgford
Bold Success in Nursing Award
*Presented by: Dr. Melissa Sutton*
Allison Kennard
Peyton Sendelbach

**Emerging Student Leader in Occupational Therapy, Doctor of Occupational Therapy Program**
*Presented by: Dr. Tara Griffiths*
Olivia Koenig

**Occupational Therapy Outstanding Performance – Fieldwork, Doctor of Occupational Therapy Program**
*Presented by: Dr. Tara Griffiths*
Sydney Ferguson
**Occupational Therapy Outstanding Performance – Doctoral Capstone Award**
*Presented by: Dr. Tara Griffiths*
Sydney Fournier
Paige Steyer

**Occupational Therapy Agent of Change Doctor of Occupational Therapy Program**
*Presented by: Dr. Tara Griffiths*
Chelsea Barnd

**Emerging Student Leader in Occupational Therapy, Master of Occupational Therapy Program**
*Presented by: Dr. Tara Griffiths*
Kara von Doesburg

**Occupational Therapy Outstanding Performance – Fieldwork, Master of Occupational Therapy Program**
*Presented by: Dr. Tara Griffiths*
Taylor Zelms

**Gamma Zeta Chapter of Pi Theta Epsilon Inductees Honor Society for Occupational Therapy**
*Presented by: Dr. Tara Griffiths*
Alyssa Bame
Riley Metzker
Kirsten Siefker
Anna Youngless

**Outstanding Student Award, Doctor of Physical Therapy Traditional Program**
*Presented by: Dr. Angela Huber*
Anthony Fusco

**Emerging Leader Award, Doctor of Physical Therapy Traditional Program**
*Presented by: Dr. Angela Huber*
Madison Misna

**Societal Impact Award, Doctor of Physical Therapy Traditional Program**
*Presented by: Dr. Angela Huber*
Braxton Fasone

**Most Valuable Peer Award, Doctor of Physical Therapy Traditional Program**
*Presented by: Dr. Angela Huber*
Amanda Keliher

**Outstanding Student Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**
*Presented by: Dr. Angela Huber*
Janna Fulkerson

**Emerging Leader Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**
*Presented by: Dr. Angela Huber*
Robert Dill

**Societal Impact Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**
*Presented by: Dr. Angela Huber*
Drew Nielson

**Most Valuable Peer Award, Doctor of Physical Therapy PTA to Doctor of Physical Therapy Bridge Program**
*Presented by: Dr. Angela Huber*
Robert Dill

**American Council of Academic Physical Therapy Student Honor Society Inductees**
*Presented by: Dr. Angela Huber*
Anthony Fusco
Daniel Miller

**The John R. & Barbara F. Murray Award for Outstanding Academic and Leadership Performance Physician** Assistant
*Presented by: Dr. Richard Hopkins*
Alyssa Linn

**Eta Theta Chapter of Phi Alpha Inductees Honor Society for Social Work**
*Presented by: Dr. Robin K. Walters-Powell*
**Inductees:**
Devin Agosto
Anna Davies
Devin Davis
Margaret Kelsey
Kayleigh Klir
David May
Devyn Olson

**Graduating members:**
Kamree Dockery
Destiny Johnson
Michaela McNamara
Jamie Patton

# College of Sciences Honors and Awards
9:00 – 10:10 a.m. – WTS

**DeBow and Catherine Freed Academic Scholars Award**
*Presented by: Dr. Lok C. Lew Yan Voon*
Mille Berg

**Outstanding Senior in Animal Science**
*Presented by: Dr. Erin Alava*
Marisa Prisco

**Outstanding Junior in Animal Science**
*Presented by: Dr. Erin Alava*
Madelyn Laskowski

**Choose Ohio First Scholars - ANSC**
*Presented by: Dr. Erin Alava*
Brionna Artrip
Evan Beeker
Bethany Cameron
Eva Carney
Sophia Chester
Owen Labbe
Emily Maraucci
Kaitlyn Sully
Grace Tansey
Ava Waters
Emmaline Wertz

**Rear Admiral Edward Feightner Outstanding Student in Chemistry**
*Presented by: Dr. Nathan Tice*
Lauren Crutchfield

**Choose Ohio First Scholars - Chemistry**
*Presented by: Dr. Nathan Tice*
Eugene McCall
Lauren Crutchfield

**Choose Ohio First Scholars - Biochemistry**
*Presented by: Dr. Nathan Tice*
Cameron Davis
Emma Milano
Zoie Vermillion

**Computer Science ACM Horizons Award**
*Presented by: Dr. Helen Schneider*
Xander Rittenhour

**Outstanding Senior Majoring in Computer Science**
*Presented by: Dr. James Roll*
Mille Berg
Grant Bryan
Lidia Laskova

**Choose Ohio First Scholars - Computer Science**
*Presented by: Dr. Mary Jo Geise*
Kayla Bennett
Malea Bess
Grant Bryan
Daniel Kamara
Eugene McCall
Zach Mitchell
Chase Otto
Grant Rider
Hassan Sesay
Wesley Stinehelfer
Benjamin Strohmaier
Owen Styer
Austin Woolley

**Applied Security & Analytics Graduate Student of the Year**
*Presented by: Dr. Mary Jo Geise*
Octavian Dungee

**Tim Barhite Memorial Award for Excellence in Biology**
*Presented by: Dr. Bethany Henderson-Dean*
Oleksandra (Sasha) Melnyk

**Choose Ohio First Scholars - Biology**
*Presented by: Dr. Bethany Henderson-Dean*
Benham Kraus
Adrienne Kuhlman
Elizabeth Magoolaghan
Taylor Post
Austin Ruhe
Charles Schmiesing
Tesa Stricklen

**The William J. Jutte Memorial Award of Excellence in Environmental, Safety and Occupational Health**
*Presented by: Dr. Kim Lichtveld*
Deborah Daniel

**Choose Ohio First Scholars - ESOH**
*Presented by: Dr. Kim Lichtveld*
Alexander Albert
Diego Chaves
Gavin Montgomery
Makalynn McCumber
Jacob Mitchell
Justin Mulholland
Nathan Riggleman

**E. Gordon Gillespie Excellence Award**
*Presented by: Dr. Kim Lichtveld*
Nathan Riggleman

**Outstanding Freshman Majoring in Mathematics**
*Presented by: Dr. Uthpala Nawalage*
Klayton Boland

**Mathematics Horizon Award**
*Presented by: Dr. Aaron Blodgett and Dr. Daniel Baczkowski*
Brinlee Barry
Amelia Mizelle

**Outstanding Senior Majoring in Mathematics**
*Presented by: Dr. Aaron Blodgett and Dr. Daniel Baczkowski*
Lidia Laskova

**Choose Ohio First Scholars - Mathematics**
*Presented by: Mr. Michael Ellerbrock*
Austin Adelman
Tyler Brockwell
Lucas Recker
Camdon Tuttle
Mason Tuttle

**Equine Business Management Leadership Award**
*Presented by: Ms. Robin Koehler*
Amber Hardeman

**Kristin L. Slater Outstanding Western Equestrian Student**
*Presented by: Mr. Art O'Brien*
McKenzy Gray

**Allison Weber Outstanding English Equestrian Student**
*Presented by: Mr. Rusty Miller*
Samantha Mayer

**Choose Ohio First Scholars - Equestrian Studies**
*Presented by: Mr. Brandon Morin*
Melia Santillanez

**Horse Club Endowed Scholarship in Memory of Clark Bradley**
*Presented by: Mr. Spencer Zimmerman*
Ethan Canterbury

## College of Business Honors and Awards
10:15 – 11:25 a.m. – Old Main, Ritz

**Outstanding Student in Business**
*Presented by: Dr. Patti Abels*
Jenna Krakomperger

**Outstanding International Student in Business**
*Presented by: Dr. Ekpen Owie*
Luigi Bove

**Outstanding Student in Marketing in Memory of Dr. Jones, First Chairman, Division of Business Administration**
*Presented by: Dr. Jaclyn Schalk*
Zack Britton

**Outstanding BSBM Student Award**
*Presented by: Dr. Scott Freehafer*
Paige South

**College of Business ACBSP Undergraduate Leadership Award**
*Presented by: Dr. Patti Abels*
*Jenna Krakomperger*

**College of Business ACBSP Graduate Student Leadership Award**
*Presented by: Dr. Nabarun Ghose*
Rojita Ghirmire

**Dana Scholars 2024**
*Presented by: Mr. Donald Essex*
Hailey Haws
Kayla Dykin
Kalena Jackson
Alexis Shoop
Jenna Krakomperger
Drake Spridgeon
Collin Warner
Joshua Thorbahn
Joe Kroeger
Marah Finnegan

**Nu Beta Chapter of Delta Mu Delta International Honor Society in Business**
*Presented by: Dr. Patti Abels*
Isabella Dzoku
Bright K. Essel
Alexander M. Hansen
Gideon Kwakye
Sydney M. Noble
Boston E. Osborne
Vishaniben Patel
David Peck
Ryan J. Thompson
Sydney Wissler

# College of Arts, Humanities, and Social Sciences Honors and Awards

10:15 – 11:25 a.m. – WTS

**Campus Leader Award**
*Presented by: Dr. Ron Tulley*
Jessica Suchta

**Leader of Tomorrow Award**
*Presented by: Dr. Ron Tulley*
Jenna Rybicki

**Scholar of Leadership Award**
*Presented by: Dr. Ron Tulley*
Aidan Wright

**DeBow and Catherine Freed Academic Scholars Award**
*Presented by: Dr. Ron Tulley*
Jada Drees

**Psychology Student of the Year**
*Presented by: Dr. Jessica LaBuda*
Mackenzie Schneider

**Outstanding Student in Communication**
*Presented by: Alex Davis*
Victoria Hansen

**Outstanding First-Year Student in Communication**
*Presented by: Alex Davis*
Monica Crawford

**Pulse Media Student of the Year**
*Presented by: Alex Davis*
Malea Bess
Andria Hoffman

**Greenwood Ehr Award**
*Presented by: Alex Davis*
Ellie Janzen

**G. G. Bruer Award in Creative Writing**
*Presented by: Dave Essinger and Melanie Dusseau*

Fiction:
Lana Gray
Lydia Schafer
Megan Arbogast

Poetry:
Beth Adkins
Z Skarupa
Wynifred Seegert

**William J. Wagner Award**
*Presented by: Dave Essinger*
Atticus Kramer
Francesca Siwa
Jenna Stitt

**Robert Ewald English Award**
*Presented by: Dave Essinger*
George Beucler
Joe Kroeger
Kaylee Linhart
Ethan Thomas

**Honors in English**
*Presented by: Dr. Sarah Fedirka*
Jada Drees
Skylar Wooddell

**R. L. Gebhardt English Award**
*Presented by: Dr. Sarah Fedirka*
Wynifred Seegert

**Richard C. Gebhardt Award for Freshman Writing**
*Presented by: Dr. Derek Sherman*
Angelina Ciccone
Lilly Leganik
Hyacinth Held

**Doug Hesse Award for Outstanding Master of Arts in Rhetoric and Writing Student**
*Presented by: Dr. Christine Tulley*
Sean Steele

**Sigma Tau Delta Inductees**
*Presented by: Dr. Nicole Diederich*
Noah Fischbach
Mattie Patch
Rebecca Thompson

**Outstanding Senior in Forensic Science Award**
*Presented by: Todd Beitzel*
Cade W. Cass

**The Andrew C. Baldridge Memorial Criminal Justice Student of the Year Award**
*Presented by: Todd Beitzel*
Mikayla Lemire

**Excellence in Religious Studies**
*Presented by: Dr. Wes Sutermeister*
Alexander Albert

**Outstanding Students in Foreign Languages**
*Presented by: Dr. Hiro Kawamura, Dr. Leah Brant, and Ms. Rie Aoki*
Japanese - Desiree Smith
ASL - Kyan Young
Spanish - Skylar Wooddell

**Friends of Findlay**
*Presented by: Dr. Hiro Kawamura*
Isaiah Conley
Megan Taber

**Outstanding Student in Teaching English to Speakers of Other Languages (TESOL)**
*Presented by: Dr. Jennifer Fennema-Bloom*
Hikari Jonathan Tsukabayashi

**Bridging Culture Award**
*Presented by: Dr. Jennifer Fennema-Bloom*
Deborah Swartzfager

**Outstanding Student in English as an International Language**
*Presented by: Greg Mott*
Abdullah Alsaidan

**Excellent Work in Law and Liberal Arts**
*Presented by: Tristin Kilgallon*
Kayla Dykin

**Excellent Work in History**
*Presented by: Dr. Elizabeth Buchanan*
Jake Treece

**Aletha Herwig Award**
*Presented by: Dr. Kathy Mason*
Selah Grace Fernandez

# College of Pharmacy Honors and Awards
10:15 – 11:25 a.m. – Davis, 2225

**Walgreens Diversity and Inclusion Excellence Scholarship**
*Presented by: Nick Ornella*
Stephen Garrison

**Walgreens Multilingual Scholarship**
*Presented by: Nick Ornella*
Jessica Singh

**The Pharmacy Camp Freshman Scholarship**
*Presented by: Cindy Fitzpatrick*
Jocelyn Wright

**Pharmacy Camp Enthusiasts Scholarship**
*Presented by: Cindy Fitzpatrick*
Kendra Ellerbrock

**Pharmacy Camp Alumni Scholarship**
*Presented by: Cindy Fitzpatrick*
Allison Siefker

**Council of Ohio College of Pharmacy Leadership Award**
*Presented by: Nira Kadakia*
Michaela Martin-Worley

**Council of Ohio Colleges of Pharmacy High Achiever Scholarship**
*Presented by: Nira Kadakia*
Jacob Holmes

**Ohio Pharmacists Association Award**
*Presented by: Nira Kadakia*
Jacob Holmes

**Bradley Shinn Memorial Scholarship**
*Presented by: Nira Kadakia*
Alec O'Reilly
Sarah Anderson

**Dallas and Cheryl Sterling Scholarship**
*Presented by: Nira Kadakia*
Ryan Gildow

**John Stanovich Award**
*Presented by: Ryan Waldschmidt*
Sarah Zimmerli

**Richard and Patricia Dudley Award for Excellence in Pharmaceutical Research**
*Presented by: Ryan Waldschmidt*
Andrew Bauman

**Pharmaceutical Science Research Award**
*Presented by: Ryan Waldschmidt*
Elizabeth Frazier

**Pharmacy Practice Research Award**
*Presented by: Susan Lewis*
Elizabeth Bockey
Madeline Deiderick
Jacob Holmes
Sydnee Payer
Sierra Shoemaker

**College of Pharmacy Travel Awards**
*Presented by: Tonya Dauterman*
Gheed Al Jubury
Mollie Harber
Nicholas Kapolis
Lyka Raza
Hailey Selders
Francesca Sferrella
Shelby Smart
Sarah Zimmerli

**Introductory Pharmacy Practice Experience Preceptor Of The Year Award**
*Presented by: Tonya Dauterman*
Crystal Wickline

**Advanced Pharmacy Practice Experience Preceptor Of The Year Award**
*Presented by: Tonya Dauterman*
Kasie Landin

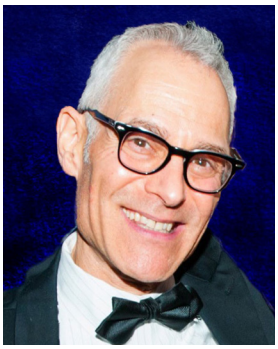
**Donald W. & Patricia Romans Stansloski Scholarship**
*Presented by: Debra Parker*
Andrew Bauman
Courtney Weihrauch

**College of Pharmacy Founding Dean Scholarship**
*Presented by: Debra Parker*
Sarah Zimmerli
Ryan Gildow

**DeBow and Catherine Freed Academic Scholars Award**
*Presented by: Debra Parker*
Regan Middendorf

**Teacher of the Year**
*Presented by: Debra Parker*
Jenna Mills

# *College Speakers*



College of Arts, Humanities, and Social Sciences

## Michael John Yunis

Michael Yunis, 1980 UF alum, is a communication industry professional with over 40 years of experience. Mike has achieved most of his success from an array of media and marketing jobs held during his career, with the majority of his experience coming from positions held at large national advertising agencies, PR firms, and Fortune 500 companies such as Omnicom, Pepsico, Metro-Media Restaurants, Arby's Inc., and BP Oil, among others. Many of the campaigns he created for these companies achieved national and international success.
Mike's long media and marketing career began after completing an internship sponsored by the UF Department of Media & Communication and a Cleveland radio broadcasting company. Prior to that, Mike served as the General Manager for UF Radio, WLFC-FM, for most of his college career. After graduation, Mike was hired by the station group to serve as Promotion Director for two of their stations, WBBG-AM and WWWM-FM, then spent over a decade in Broadcast Marketing at General Cinema Corporation, Nationwide Communications and CBS Radio, where he held a variety of positions at a number of Cleveland radio stations in marketing and sales management.
In recent years, he has lent his extensive marketing and communications background to serving several non-profits and government organizations such as the YMCA of Greater Cleveland, The Cleveland Ballet, and marketing consultation for several Ohio municipalities including Cleveland, Bratenahl, and Twinsburg.
Today, Mike is semi-retired but continues to work part-time as a freelance writer, contract marketer, and as a certified fitness and wellness coach at the YMCA of South Florida and other fitness centers in the Miami-Fort Lauderdale area. In addition, he produces and markets a nationally syndicated radio show and streaming radio station called the VR2 Show –Vintage Rock Radio (available on the TuneIn and Mixcloud apps).

College of Pharmacy

## Dr. Robert E. Braylock PharmD, MBA, RPh

Dr. Robert E. Braylock is a child of God and joint heir with Jesus Christ. Dr. Braylock grew up in Cleveland Heights, OH and graduated college from the University of Findlay (OH), earning a Bachelor of Science, Master of Business Administration, Doctor of Pharmacy degree, and minors in biology, chemistry, and music. Dr. Braylock is on a mission to establish prosperity and to eliminate poverty. With approximately 20 years as a healthcare professional, educator, and unity, equity and justice practitioner, Dr. Braylock is experienced in developing initiatives that enhance the educational, employment, and economic wellbeing of individuals and communities.
For his work and impact, Dr. Braylock received the Dartmouth Scholar Award from Geisel School of Medicine at Dartmouth College and the Henry Cade Memorial Award from the National Association of Boards of Pharmacy. Dr. Braylock's development and success is a testament of the overwhelming and unconditional love of Jesus Christ.

College of Sciences

## Trevor Gillig, CIH, CSP

Trevor is a two-time graduate of the University of Findlay. He graduated in 1998 with a bachelor's degree in Environmental & Hazardous Materials Management, and then in 2002 with a master's degree in Environmental Safety & Health Management. He has worked throughout his career in various safety and industrial hygiene roles in nuclear facility decommissioning, chemical manufacturing, and oil and gas refining and transportation.
He currently works as the Director of Occupational & Environmental Hygiene at Marathon Petroleum Company, LP, where he manages the Corporate Industrial Hygiene and Toxicology & Product Safety teams. He is a member of the University of Findlay Environment, Health, Safety, & Sustainability program advisory board, the American Fuels & Petrochemical Manufacturers Industrial Hygiene Committee, and various committees of the American Industrial Hygiene Association. In his personal life, he is the father of two teenage children and the co-owner of Gillig Winery, which was established in 2016 in Findlay, Ohio with his wife Nikki Gillig.

College of Education

## Nicholas Rackley '14 MAE '18

Nicholas Rackley '14 MAE '18 is a dedicated history teacher at Bluffton High School with over a decade of experience inspiring students to connect with the past and engage with the world around them. With a passion for education and a commitment to student success, Nick has built a reputation for innovative teaching methods and fostering a love for history, psychology, yearbook, and College Credit Plus (CCP) in his classroom.
Nick's journey in education began after earning his bachelor's degree in History and Pre-Law from the University of Findlay. After a year, he returned to receive a post-baccalaureate license in AYA Social Studies. He then pursued a master's degree in education from UF and is currently completing a second master's in History at Bowling Green State University. His academic achievements reflect his dedication to lifelong learning and professional growth, which he brings into the classroom every day.
Beyond teaching, Nick served as an assistant technology director for seven years, specializing in learning management systems (LMS), domain management, and hardware integration. His technical expertise has been instrumental in modernizing Bluffton High School's digital infrastructure both before, during, and after COVID, ensuring that both students and staff have access to the tools they need for success in an increasingly digital world.
Nick's contributions to the school extend to athletics and extracurriculars as well. As the coach of both the boys' and girls' golf teams, he has guided his players to remarkable achievements, including one state contender and several district contenders.
A pioneer in the rapidly growing field of scholastic esports, Nick is the founder of the Bluffton High School Esports program, which has achieved multiple club championships under his leadership. Recognizing the potential of esports to foster teamwork, strategic thinking, and digital literacy, he co-founded Esports Ohio, one of the premier state organizations in the nation. Esports Ohio now boasts over 10,000 players, coaches, and streamers, providing a platform for students to excel in competitive gaming while building skills for the future.
Nick's commitment to education extends beyond high school. Alongside his wife, Britney Rackley, he serves as an adjunct professor at the University of Findlay, co-teaching the AYA methods class. Together, they share a passion for shaping the next generation of educators and making a positive impact in their community.

College of Business

## Johnnie Jackson, PhD

Johnnie Jackson, PhD is a graduate of the University of Findlay (2007, 2009). He currently serves as the Diversity Coordinator for Marion City Schools. At the University of Findlay he was a business student, football player, and graduate student. While at UF, he lived in the Umoja House for two years and served as graduate student assistant for Black Student Union.

College of Health Professions

## Christina McFarland

Christina McFarland is a graduate of The University of Findlay (2021) and Bowling Green State University (2023). She earned a Bachelor of Science in Strength and Conditioning from The University of Findlay and went on to complete her Master's of Athletic Training at Bowling Green State University.
During her time at BGSU she was a student representative for multiple D&I committees, did a 4-month clinical rotation in Washington D.C. shadowing the lead Athletic Trainer of DC public schools, and received Tony Ortiz D&I Scholarship.
Currently, Christina works as an Athletic Trainer at Rogers High School in Toledo and coaches a USA club swim team in Bowling Green. Since graduating with her masters, Christina has continued to work on her research on the lived experiences of minoritized groups within the profession of athletic training. Her goal is to bring greater awareness to these experiences, with plans to present her findings at the regional GLATA and National Athletic Training Conferences within the next 2 years.
Christina is passionate about improving the inclusivity and diversity within the athletic training field and strives to make meaningful contributions through both her clinical and research work.

# *Oral Presentations*

## 1 p.m. - 1:20 p.m.

**CBSL 221**
Perceived Censorship Among College Students
***Jada Drees**
Mentor: Elizabeth Buchanan

With trends in social media, a perception is created with universities and the censorship among the student body. The literature on perceived censorship among college students addresses the concerns of silencing students while indicating there is a problem with students self-censoring during their time at universities. While the literature focuses on the issues surrounding censorship with the college students, it does not specifically address what environmental aspects may contribute to the relationship of universities to the perceived censorship for students. Adding to the conversation of censorship, this project statistically analyzes a survey conducted by the Foundation for Individual Rights and Expression (FIRE) titled 2023 College Free Speech Rankings. Over two hundred colleges were researched by location, size, political atmosphere and religious influence, and these findings were analyzed compared to the survey findings based on the College Free Speech Rankings. The purpose of this project is to add to the conversation of censorship and determine if certain factors are significant to the level of censorship perceived by university students. Additional research should be conducted to further identify factors and potential indicators of the intensity of said censorship at a particular university.

* The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**DAVIS 181**
True Crime in the Media and Its Effect on Public Perception
**Kaylee Davis**
Mentor: Robert Postic

A popular genre of media we have seen accumulate a tremendous amount of interest with has been true crime. With media insight on crime, the public is able to gain insight on the investigation and trial process of violent crimes like never before, all while keeping the public engaged through captivating sensationalism. But with true crime saturating our daily media intake, a question arises; can too much true crime be harmful to society? This presentation reviews the perception and concern of crime rising despite the actual descend of violent crime rates, along with how the media plays a role in it.

**DAVIS 102**
*A Mathematical Analysis: Solving the Problems of Good Will Hunting*
**Delaney Thomas**
Mentor: Daniel Baczkowski

The 1997 film Good Will Hunting follows Will Hunting, a self-taught mathematical genius who chooses to work as a janitor at MIT. While working, Will encounters and solves two difficult mathematic problems blackboard presented by Professor Gerald Lambeau to his students. This presentation analyzes these problems using concepts from calculus, discrete mathematics, and graph theory. The first problem involves analyzing a multigraph G by determining its adjacency matrix A, computing the matrix giving the number of 3 step walks, and deriving the generating functions for walks between specific nodes. This presentation finds these solutions utilizing fundamental principles in graph theory, linear algebra, and calculus. The second problem asks for all homeopathically irreducible trees with ten nodes. While Will only finds the first eight tree graphs, steps taken to find the other two graphs are explained by recognizing and utilizing structural patterns rather than applying advanced mathematics. This analysis highlights the mathematical depth of the film's blackboard problems and their connections to discrete mathematics and graph theory.

**DAVIS 188**
Peru Perspectives: Lessons from Study Abroad
**Moody Milenka, Rosie Feraro, and Nick You**
Mentors: Greg Mott and Paul Neufeld Weaver (Bluffton)

Milenka Moody, Rosie Ferraro, and Nick You participated on a ten-day immersion experience in Cuzco, Peru, in December 2024. In this presentation, they will report on the preparation, immersion, and reflection they experienced. They will not only summarize the variety of activities they participated in, but will also share the transformative effect that the study abroad provided. The presenters will demonstrate: 1.How preparation was put into practice while in Cuzco. 2.How immersion impacted linguistic and cultural competency. 3.How immersion influenced personal growth and perspective. 4. How immersion confirmed or conflicted with previous study of Peruvian culture and Spanish language. 5. Lessons realized upon reflection after returning home. The presentation will be accompanied by a PowerPoint slide with vivid pictures from the trip.

**CBSL 232**
Effects of Substrate Composition on Burrowing Behavior in Captive Juvenile Curly Hair Tarantulas (Tliltocatl albopilosus)
**Brendan Ash**
Mentor: Brandan Gray

This study investigates how substrate structure and composition affect burrowing behavior in captive juvenile curly hair tarantulas (Tliltocatl albopilosus). Soil habitat data from locations where wild tarantulas were observed were used to design substrate for 12, two-year-old spiderlings reared as part of a separate study on diet. The soil habitat of wild curly hair tarantula ecosystems is composed of clay, sand, silt, gravel, and organic carbon material. In our test substrate, we used a mixture of 44.2% terracotta clay, 25.6% mixed grit sand, 30.2% locally harvested silt, 1.0% aquarium gravel, and 2.89% coconut husk, which emulate similar ratios of soil composition in wild ecosystems. Popular substrates for captive curly hair tarantulas are coconut husk, bark, and moss. We assessed how burrowing behavior (time taken to construct a burrow), burrow morphology (length, depth, angle of burrow entrance), and internal burrow conditions (humidity) of spiders in the test substrate compared to spiders in coconut husk. Mimicking more natural substrate in captive enclosures could elicit more natural burrowing behavior in domestic tarantulas. We hope these findings provided insights into better captive husbandry of curly hair tarantulas and tarantulas in general.

**CBSL 220**

* TransDigm Group Inc. (TDG)

**Rajiv Regmi, Rojita Ghimire, and Khadeeja Wajahat**

Mentor: Joon-Young Song

This presentation analyzes TransDigm Group Inc. (TDG), a global leader in aerospace component manufacturing, through an in-depth financial valuation. Using Discounted Cash Flow (DCF) models, relative valuation techniques, and Monte Carlo simulations, our research estimates a one-year target price of $1,363.84, reflecting a limited upside potential of 2.75% from the February 7, 2025, closing price of $1,327.34. TDG's growth is driven by its acquisition-based strategy, which ensures high margins and strong return on equity (ROE). However, the company's significant financial leverage poses risks in a high-interest-rate environment. Our analysis considers key revenue drivers, including aftermarket sales, defense contracts, and commercial aerospace demand, while assessing macroeconomic factors that may impact TDG's valuation. Given the constrained upside and external economic pressures, our investment recommendation for TDG is HOLD. This presentation will provide insights into TDG's competitive positioning, financial sustainability, and risk factors, offering a comprehensive evaluation of its investment potential in the aerospace sector.

*Presentation is based on work the students presented at the CFA Institute Research Challenge, February 21, 2025, Cleveland. They were awarded third place.

**DAVIS 186**

Investigating the Impact on High School Science Student Success of Using the Metacognition Technique of Monitoring

**Tracy Rendleman**

Mentor: Kyle Wagner

This proposed research study aims to quantitatively investigate what methods high school science students can use to improve the accuracy of their metacognitive monitoring while preparing for and taking exams. Monitoring is an essential skill because it allows students to self-evaluate their understanding. While many students rely on familiarity with the material instead of the ability to retrieve information, effective monitoring will tell a student if they need to change an answer on a test. Training from instructors can help students become better prepared for the testing process.

**CBSL 237**

Not Like Us: The Far-Right Reaction to the Super Bowl LIX Halftime Show

**Victoria Hansen**

Mentor: Kit Medjesky

One week after receiving five Grammys for his single "Not Like Us," Kendrick Lamar headlined the Super Bowl LIX Halftime Show for over 133.5 million people (Associated Press, 2025). In his show, Lamar delivered critiques of American culture, the expectations of those performing at the Super Bowl, and the treatment of Black Americans. Due to the wide reach of the Halftime Show, Lamar's performance has been seen and sparked controversy within far-right media circles. This presentation will research the far-right reaction to the halftime show through the critical perspectives of polysemy (the idea that any message can be interpreted in multiple ways) and the third persona (the concept of a person who is neither the one speaking nor the intended audience). References Associated Press. (2025, February 11). Super Bowl LIX averages record audience of 127.7 million viewers. NFL.com. https://www.nfl.com/news/super-bowl-lix- averages-record-audience-of-127-7-million-viewers

## 1:30 p.m. - 1:50 p.m.

**CBSL 220**

*Across Nations: Collaborate to Compete

**Rojita Ghimire**

Mentor: Nabarun Ghose

Nations are interdependent. There is a critical need to collaborate internationally for academic success. Knowledge from only one country hinders faculty and student exposure to developments across the nation. Collaborative efforts of multiple diverse entities have a higher potential for greater success. In order to reach and deliver this goal, both academic and professional bridges across nations provide the opportunity for greater achievement and learning experiences for students and faculty. The networks created in this process are strategically invaluable competitive resources for operations in and with a number of nations. This presentation will explore how we can bridge the local and global academic and professional networks through collaboration and thereby achieve significant improvements in student learning experience and educational outcomes. Such experiences build lifetime career competencies.

* This presentation is based on one given by the student October 11, 2024 at the ACBSP Great Lakes Region Meeting which won the Student Showcase Competition. It has been selected to compete nationally in July in Las Vegas.

**DAVIS 188**

Exploring Veterinary Medicine Across Cultures: Insights from the Rakuno Gakuen University Study Tour in Japan

**Olivia Ruger, Lauren Anderson, Sara Steck, and Madeline Nutt**

Mentors: Hiroaki Kawamura and Rie Aoki

Health of animals is important across cultures. However, there are different cultural views on animals and animal care. The study abroad trip to Hokkaido, Japan, provides a unique opportunity to gain first-hand experience of observing veterinary medicine in the Japanese cultural context. The program is "Rakuno Gakuen University Animal Science Study Tour." The program combines visits to various cultural landmarks, interactions with local communities, and first-hand experiences in veterinary practices and laboratories to broaden our understanding of Japan's cultural heritage and advanced medical systems. The participants observe veterinary professionals applying traditional and modern techniques to animal care, including managing livestock and companion animal health. Additionally, the trip offers a comparative perspective on veterinary education and clinical practices between Japan and the United States. Cultural activities such as traditional tea ceremonies, rice planting, homestays, and visits to historical landmarks allow a deeper understanding of the societal values that influence Japanese veterinary practices. The four participants

of the 2024 program will share their experiences and take-aways from the study tour. The participants believe that the experience of the program definitely expanded their knowledge of veterinary science and created cross-cultural appreciation and the exchange of best practices in animal healthcare.

**CBSL 237**
Working Survivor: A Data Analysis Into Contestants' Professions and Finishes
**Olivia Taylor**
Mentors: Todd Beitzel and Jessica LaBuda

Since its debut in 2000, the reality TV game show Survivor has featured 715 unique contestants from diverse backgrounds across 47 seasons. Of these players, only 45 have won the title of Sole Survivor, with two securing victory twice. I examined whether a contestant's profession influences their chances of winning and, if so, which professional group has the highest success rate. To analyze this, I compiled a spreadsheet including each contestant's occupation at the time of filming, along with factors such as age and hometown, organized by season finish order. While I initially expected a strong correlation between profession and success, the findings indicate that other factors played a more significant role in determining the 47 Sole Survivor wins. However, one profession group showed a higher likelihood of winning than others, raising the question of whether this is due to pure chance or underlying advantages associated with that profession. These findings provide insight into potential future winners and how different professional backgrounds may impact success in the game as the show continues.

**CBSL 221**
Labor Productivity and Federal Government Spending in the U.S.
**Hayden Hiser and Cameron Davis**
Mentor: Tuan Le

This study examines the relationship between labor productivity and federal government spending in the U.S. An increase in labor productivity could lead to higher economic growth and generate additional tax revenue for the government. This extra revenue could be used to invest in infrastructure, education, and social services. Additionally, as workers become more productive, they may rely less on government welfare programs, potentially reducing overall government spending.

**DAVIS 102**
Exploring Division in Modular Arithmetic
**Lily Harrah**
Mentor: Daniel Baczkowski

Modular arithmetic is a system of arithmetic for integers, where integers "wrap around" upon reaching a given fixed quantity (this given quantity is known as a modulus) to leave a remainder. In modular arithmetic, division is the process of dividing one number by another but involves multiplying by the multiplicative inverse. Modular arithmetic and its division's modern approach were developed by Carl Friedrich Gauss to develop a new treatment for remainder problems than previously used methods. Gauss further proved this method by applying the Euclidean Algorithm as its backbone. This presentation will focus on the process used to solve modular arithmetic division problems and its applications today.

**DAVIS 186**
Barriers within Public K-12 School Systems for Individuals with Disabilities Requiring Service Animals
***Luke Miller**
Mentor: Carrie Wysocki

The study identifies and documents the barriers that individuals with disabilities face in public K-12 schools when looking to have service animals with students. Furthermore, the policies and practices within public K-12 school systems related to service animals for students with disabilities are examined and compared to the policies and expectations set at the federal-level through the Americans with Disabilities Act (ADA). While some schools are accommodating toward service animals for students with disabilities, the process is not always easy for families. Parents/Guardians are surveyed on their experiences with schools, with interviews conducted at the request of the families, to discuss any barriers they may face. The overarching, long-term goal of this study is to highlight any barriers within school systems that limit service animal access that are necessary and federally-protected accommodations for students with disabilities. This will expand upon the initial findings presented at last year's SSC.

* This presenter is an Honors Program student and this presentation is part of their Honor's thesis.

**CBSL 232**
†Effects of Phytoremediation on Horizontal Gene Transfer
***Sierra Kirby, Oleksandra Melnyk, Adrienne Kuhlman, and Taylor Ivory**
Mentor: Bethany Henderson-Dean

The increasing global use of antibiotics in human, veterinary, and agricultural practices has led to significant environmental contamination, particularly in aquatic ecosystems. The amount of antibiotic resistant bacteria in local waterways has been increasing due to an increase in antibiotics in runoff going into waterways fostering ecological imbalances and contributing to the spread of antibiotic-resistant bacteria (ARB) and resistance genes (ARGs). This study investigates the role of aquatic plants, specifically Vesicularia montagnei and Phyllanthus fluitans, in mitigating horizontal gene transfer (HGT) among bacterial populations in controlled environments. We explore whether these plants can reduce the prevalence of ARGs or inadvertently facilitate HGT. Utilizing in vitro experiments with E. coli strains resistant to tetracycline and ampicillin, we assess how plants are affecting the rate/occurrence of HGT. Our findings aim to inform wastewater treatment strategies by evaluating the potential integration of phytoremediation techniques. Understanding the interaction between HGT and aquatic plants is crucial for developing effective measures to combat antibiotic resistance in aquatic ecosystems, ultimately enhancing public health safety.

† Work to be presented at NCUR, Pittsburgh PA, April 7-9 2025.
* This presenter is an Honors Program student and this presentation is part of their Honor's thesis.

**DAVIS 181**
Exploring the Impact of Peer-Based Mentoring on Family System's Resilience and Development After Childhood Maltreatment: A Mixed Methods Study
**Michaela McNamara**
Mentor: Robin Walters-Powell

When surveyed, 80% of Americans identified adverse experiences and maltreatment as worsening issues. Children Mentoring Connection in Findlay, Ohio, addresses this concern by offering a professionally monitored mentoring program for boys and girls, primarily from single-parent families or those living with grandparents or other caregivers, to provide support systems through mentorship. The purpose of this study is to examine how trauma-informed mentoring practices implemented by mentors and case managers within the Children's Mentoring Connection (CMC) impact family systems' ability to build resiliency following a child's adverse experience. This mixed methods study involved interviews with CMC case managers and guardians of clients, exploring the Childhood Experiences (ACE) Questionnaire, which links adverse childhood experiences to physical, emotional, along with topics on trauma, family systems, health.

## 2 p.m. - 2:20 p.m.

**CBSL 232**
Comprehensive Model Design in STAAD for Modern Sustainable Enclosed Zero-Emission Cattle Farms Integrated with Waste, Wastewater Treatment, Hydroponics, and Vertical Fodder Farming
**Ajith Singh Bhagavath Singh**
Mentors: Kim Lichtveld and Justin Richardson

Aims to produce a model in STAAD for a modern sustainable methodology based enclosed zero-emission cattle farm which, incorporates state-of-the-art waste management, wastewater treatment and hydroponic with vertical farming techniques for the fodder production. In particular, it aims to reduce the environmental impacts of traditional cattle farming concerning greenhouse gas emissions, water pollution, nutrient runoff and pollution from hormones etc. to the environment. This study seeks to increase farm productivity and resilience by converting waste into precious resources, as well as supporting sustainable agriculture through vertical farming for fodder. Ultimately, the model will assist as a replica for the global cattle industry in addressing environmental constraints while ensuring economic viability.

**CBSL 237**
What Happened to Jimmy Hoffa? An Analysis of the Chuckie O'Brien Theory
**Seth Dahlhausen**
Mentor: Sarah Fedirka

The mystery of Jimmy Hoffa's disappearance has remained unsolved for nearly fifty years. His sudden disappearance in July 1975 has little evidence or suspects and the case has essentially been cold since it was opened. The literature on Jimmy Hoffa informs about the circumstances of his life and a theory on his disappearance, but no specific suspects at length. One suspect is Charles "Chuckie" O'Brien, an "adopted" son of the Hoffa's. This paper examines newspaper articles as well as interviews with Chuckie O'Brien in the years following Hoffa's disappearance. It argues that O'Brien's answers and behavior in these interviews is suspicious and leads us to believe that he may have been involved in the disappearance of Jimmy Hoffa.

**DAVIS 181**
Enhancing Resilience in Queer Youth: The Impact of Support Programs on Overcoming Adversity
**Jamie Patton**
Mentor: Robin Walters-Powell

Research has shown that LGBTQ+ youth are particularly vulnerable to mental health challenges, homelessness, and social marginalization. My research conducted at Equality Toledo aims to explore the intersection of mental health, social supports, and empowerment among LGBTQ+ youth at Equality Toledo, evaluating the effectiveness of an LGBTQ+ youth program in fostering positive mental health outcomes and resilience while also examining the early stages of the program development. The study utilized a mixed-methods approach, using both quantitative and qualitative methods. The quantitative data analyzes survey data collected through the Mental Health Continuum Short-Term (MHC-SF), assessing the emotional, psychological, and social wee-being of queer youth. The qualitative data included a semi-structured interview exploring the impact of Equality Toledo's developing LGBTQ+ youth program on mental health, social support, and well-being, which was used to support the quantitative data. The study also utilized the Person-in-Environment (PIE) Theory as its guiding framework, emphasizing understanding individuals within the context of their environment, including their social relationships, community, and broader social-cultural surroundings. The research and study provided a deeper understanding of the experiences of LGBTQ+ youth, and how these resources and supports improve their quality of life.

**DAVIS 188**
The Role of Digital Storytelling in Public Relations
**Ellie Janszen**
Mentor: Amy Rogan

As digital media continues to dominate how information is consumed, storytelling has become a key tool in public relations. This project examines how video production and narrative-driven content are used to engage audiences and foster connections between organizations and their communities. Centered around a video series counting down to commencement and partnering with the UF Marketing Department, the project explores how well-crafted videos can convey messages, evoke emotions, and create a sense of participation that traditional media often can't match. By analyzing the evolution of digital storytelling in PR and collaborating with industry experts, this project will highlight the importance of video production as a crucial tool in modern public relations practices.

**DAVIS 102**
A New Approach to Finding Riesel and Sierpiński Numbers
**Bruce Keener**
Mentor: Daniel Baczkowski

A covering system is a collection of finitely many residue classes

whose union contains every integer and is a key idea used in number theory. Covering systems started gaining popularity in number theory in the 1950s when Hans Riesel used a covering system to prove that there are infinitely many integers k such that k X 2n - 1 is composite for all natural numbers n. Similarly, Wacław Sierpiński proved that there are infinitely many integers k such that k X 2n + 1 are composite for all natural numbers n. This presentation will highlight the development of covering systems to find such integers k that are from some 3rd order recurrence relations.

**DAVIS 186**
Primary Educators' Attitude Toward Teaching Environmental Issues in the Classroom
**Ainsley McCluer**
Mentor: Kerry Teeple

Change starts small but climate change is one of the biggest threats our current earth is facing. As temperatures rise, so do arguments on whether human-induced climate change is real; education on human impact on the environment is crucial. Educators play a huge role in creating a positive change for the future of the environment but a lack of resources and training are holding back primary teachers from educating our young students on what is really going on in the environment. Furthermore, personal beliefs on climate change and its human causes shape educators' confidence and motivation to teach these subjects. Understanding these factors is essential for developing strategies to support teachers in delivering comprehensive and unbiased environmental education. This study was driven by a lack of research in the field on this topic as well as a lack of emphasis on environmental topics in the Ohio Learning Standards for Science. Through a survey sent to primary education teachers in Northwest Ohio, researchers uncovered teachers' comfort levels and efficacy played a part in their willingness to teach environmental topics.

**CBSL 220**
Crafting a Successful Marketing Plan: Applying to Financial Sales
**Mary Kelly Mulcahy**
Mentor: Nabarun Ghose

In today's competitive financial services industry, a well-structed marketing plan is essential for financial sales to attract and retain clients. This presentation outlines a strategic marketing plan designed to promote and advertise a financial sales representative's brand and value to prospective clients in order to grow their business. By creating a personalized marketing plan, financial sales representatives can establish a strong market presence and unique brand, identify target clients, set specific objectives to track progress, etc. With this plan, representatives are setting themselves up to achieve sustainable business growth and success.

**CBSL 221**
OSA Adventures - Experiences Gained from Serving Abroad
**Lauren Govert, Allyson Patterson, Jeremiah Jackson, Morgan Koenig, Annika James, and Deborah Daniel**
Mentor: Elizabeth Pino

Oiler Serving Abroad serves as a culture immersion and service project where we travel abroad to different countries experiencing different cultures and traditions. Building relationships through these communities, serving in the heart of these countries such as Costa Rica and Ecuador, learning their language, and the difference and similarities amongst ourselves. Oiler Serving Abroad gives students a unique experience and gives everyone the ability to walk away with testimonials and lessons they bring back, as they become a better person due to their experiences. As we reflect on our Oiler Serving Abroad experiences from the departure meetings, getting to know one another sometimes even for the first time, the fundraiser's leading up to the trip, and the journaling and reflections done during the trip, we now stand cherishing those memories forever.

## 2:30 p.m. - 2:50 p.m.

**DAVIS 188**
Information Gathering Interviews to Examine the Role of News Literacy and Digital Algorithms in Campus Awareness
**Ellie Janszen, Logan Scott, Andrea Hoffmann, Ashley Wittenmyer, Sofia Mokofisi, and Eva Hancock**
Mentor: Amy Rogan

As the digital landscape influences how news and information are shared, understanding news literacy and its relationship to algorithms has become increasingly important. This project for COMM320 Interviewing course presents the results of survey style interviews conducted on campus to assess students' knowledge of news literacy, their awareness of algorithmic impacts on news consumption, and their upbringing's influence on media consumption behaviors. As an introductory project, we chose questions as a group to introduce us to the interview process from start to finish by formalizing, conducting, and presenting our findings. Survey interviews are a style of information gathering which include research, investigations, journalistic interviews, and polls. Individually, we worked to execute successful surveys and practice interviewing skills. By analyzing student responses through qualitative questions, this project aims to uncover the gaps in knowledge about the role of algorithms in shaping what news reaches individuals, as well as how media literacy practices are developed from a young age. The findings provide insights into issues, behaviors, perspectives of the university community. That narrative can show how to better educate students to navigate digital news, empowering them to critically engage with the information they encounter.

**CBSL 237**
Selected Written Works by Matthew Warner
**Matthew Warner**
Mentor: David Essinger

Author will read from creative works, including poetry and short narratives.

**DAVIS 181**
Stress Factors and Support Systems for Parents With Children With Developmental Disabilities, or Children Utilizing IEPs in School System
**Kamree Dockery**
Mentor: Robin Walters-Powell

The purpose of this study is to look further into the stress factors and effectiveness of support systems for parents with children with developmental disabilities, or children who use IEPs in the education/school system at Ada Exempted Local Schools. Given the increasing awareness of the need for well-rounded assistance for this demographic, it is essential to comprehend the ways in which educational institutions and outside resources support the parents' wellbeing. Parents of children with developmental disabilities will be given a comprehensive semi-structured survey as part of a mixed-methods study to collect both qualitative and quantitative data. Perceptions of school-based programs' efficiency, accessibility, and integration will be examined in the survey, along with the function of outside support networks like community resources and therapy services. For the survey portion of the research, I will have parents answer 15 questions based on the Parent Stress Index (PSI) Scale, rating each question; "Strongly Disagree, Disagree, Neutral, Agree, Strongly Agree". For those parents willing to participate in the interview, I will ask a total of seven questions about stress factors, as well as how they feel about support systems within the school or outside support systems.

**DAVIS 186**
Comparing JASPER and Reciprocal Imitation Training: Autism Interventions for Joint Attention in Young Kids
**Veronica Wadsworth**
Mentor: Jennifer Theriault

Autism Spectrum Disorder is a neurodevelopmental disorder characterized by difficulties with communication skills and social skills. These difficulties often result in delayed communication skills during the preschool years. Joint attention skills are believed to be a precursor to developing typical communication skills; failure to develop the ability to share joint attention impede further progress along the developmental trajectory. The current study examines the efficacy of two evidence-based naturalistic developmental behavioral interventions which target joint attention skills in preverbal preschool-age children diagnosed with autism. Utilizing the meta-analysis approach, this research compares the Joint Attention Symbolic Play and Emotional Regulation (JASPER) intervention to the Reciprocal Imitation Training (RIT) intervention by comparing the effect sizes across fifteen separate previous studies. The effect sizes were calculated and compared using Hedges' g to determine which intervention is most effective at improving the joint attention skills of participants. The results of this study can inform professionals seeking to identify interventions to improve future communication skills in preverbal preschool-age children with autism, as improving joint attention skills are believed to correlate with future expressive and receptive language skills.

**CBSL 232**
†Synthesis and Characterization of Glycerol-Based Biodiesel Fuel Additives
**Lauren Crutchfield**
Mentor: Nathan Tice

Biodiesel, which is comprised of a mixture of long-chain fatty methyl esters, has long been viewed as a superior fuel compared to petroleum diesel with environmental factors in mind, as it releases fewer harmful emissions into the atmosphere and can be created from renewable feedstocks. However, one of the biggest challenges with biodiesel is its relatively high freeze point, which leads to challenges in cold operations. To counteract this, certain fuel additives can be added to lower the observed cloud point for biodiesel. One such class of promising additives are based upon a glycerol-backbone, acetal-glyceryl esters. This approach has the additional advantage of utilizing a side product from the biodiesel formation process itself to enhance the properties of the biodiesel.

*Work presented at the Spring ACS Conference 2024 and SSC 2024. To be presented at the Spring ACS Conference 2025.

**CBSL 220**
†USA and the World: Upscaling for Global Competency
**Khadeeja Wajahat**
Mentor: Nabarun Ghose

Globalization, despite tariffs, is a fact of business and we have to upscale our global competencies to be competitively ahead. With the advance of artificial intelligence, automation, and cost-focus strategies, our students will have to armed with competencies to succeed in the remaining executive positions that will be there (Haleem et al., 2021). It is our responsibility to upscale the global competencies of our students so they can achieve productive careers. This presentation will offer tested international collaborative measures to start building or enhance the strategic fortified arsenal of US educators to achieve the requires student learning outcome.

†Work presented at the Academy of Business Research (ABR) Conference, Fall 2024, Orlando.

**DAVIS 102**
Development of Research Assistant with Adaptive AI Software: Enhancing Academic Research Efficiency
**Simon Derstine, Patrick Rockow, Elina Ivanova, and Kenneth Snyder**
Mentor: Dominic Wilson

Organizing and structuring academic research can be complex, and researchers often struggle with handling large amounts of information, developing a clear framework, and extracting key insights from various sources. The AI research assistant software streamlines this process by using a framework suggested in the book: "Research Design: Qualitative and Quantitative, and Mixed Methods Approaches". The app features a conversational interface that walks a user through a step-by-step process with guided questions tailored to the type of research being conducted. As students' progress through each stage, the AI Assistant uses carefully designed questions to guide them in developing research questions, creating outlines, conducting literature reviews, and structuring their arguments effectively. The system leverages a Large Language Model (LLM) combined with Retrieval-Augmented Generation (RAG) to provide contextually relevant guidance based on the research book's framework. This architecture ensures that the assistant's responses are both grounded in established

research methodology and dynamically adapted to each user's specific research context.

## 3 p.m. - 3:20 p.m.

**DAVIS 186**
Mathematics and Education- How Are They Linked and What We Can Look For as Future Educators
**Mason Tuttle, Lucas Recker, and Austin Adelman**
Mentor: Julie McIntosh

Mathematics and education are inherently interconnected, as mathematics serves as both a foundational subject and a critical thinking tool in education. The study of mathematics not only equips students with problem-solving skills and logical reasoning but also fosters creativity and the ability to analyze complex situations. For future educators, understanding the importance of mathematics in cognitive development is crucial. Mathematics encourages students to approach problems systematically, develop perseverance, and build confidence in their intellectual abilities. As future educators, we wanted to see how jobs in education, for this presentation mathematics, would look for us in the future and what strategies we could use to ensure our students are able to succeed to the best of their ability. Mathematics and education are inherently interconnected, as mathematics serves as both a foundational subject and a critical thinking tool in education. The study of mathematics not only equips students with problem-solving skills and logical reasoning but also fosters creativity and the ability to analyze complex situations. For future educators, understanding the importance of mathematics in cognitive development is crucial. Mathematics encourages students to approach problems systematically, develop perseverance, and build confidence in their intellectual abilities. As future educators, we wanted to see how jobs in education, for this presentation mathematics, would look for us in the future and what strategies we could use to ensure our students are able to succeed to the best of their ability.

**DAVIS 188**
Bigelow Hill Students' Experiences in a Leader in Me School
**Victoria Hansen, Kelsey Bates, Emma Fidler, Ben Ireland, Richard Mast, Alivia Penman, and Edith Somrah**
Mentor: Amy Rogan

Building a rapport, active listening, managing and guiding a conversation are all communication skills we learned in this community involved project in the COMM320 – Interviewing class. All students in the class traveled to Bigelow Hill Intermediate school, a Leader in Me Lighthouse School, to interview 35 fourth graders about their leadership skills. The Leader in Me program uses the 7 Habits of Highly Effective People as a framework to teach students leadership from a young age, culminating each year in the Big Shake. The Big Shake is a competition in which students display their communicative leadership skills through professional interactions with community members. Interviewing the young students accomplished two goals: it helped us learn to manage and guide a conversation and it helped the Bigelow Hill students practice for the Big Shake. To prepare for our interview event, Dr. Kerry Teeple from the College of Education guest lectured to instruct us on how to talk to 9 and 10-year-olds. We wrote individual interview plans to prepare for the event. During this interview, UF students interviewed two to three fourth graders asking questions regarding leadership skills, their school, and their personal interests in and out of school. When discussing leadership, most students expressed positive feelings toward the Leader in Me program.

**CBSL 237**
†Reimund's Diamonds: A History of Creative Writing at the University of Findlay
**Noah Fischbach**
Mentor: Harley Ferris

Creative writing has a unique intersectional and historical identity that is not well-known within the University. While creative writing studies may be considered niche by modern standards, it greatly influenced the University's development as a spiritually-founded liberal arts institution. Using a selection of literary journals found within University archives that span from the 1950s to the present day, I mapped out three distinct eras that reveal major milestones in the formation of a characteristic, fixed identity for creative publications. This research showed that creative writing was used to engage various social issues while establishing the University's reputation for delivering quality creative writing.

†Proposing this work to the College English Association of Ohio (CEAO). The conference will be held Saturday, April 5, 2025 at Kent State University.

**DAVIS 102**
Development of a New Math Placement Test Software
**Bruce Keener, Mille Berg, and Matteo Filippi**
Mentor: Dominic Wilson

The University of Findlay currently utilizes a third-party math placement test to ensure proper math course placement for students. However, as the test is currently administered by a third-party company, it is a costly solution that provides very little flexibility for the department. We have developed a new testing environment for administering the UF math placement test. The new environment gives the math department more flexibility in setting up and administering the test, allowing for more customization when it comes to content and questions, while also eliminating a large portion of the cost.

**CBSL 232**
Replicability of Bone Fracture Patterns: A Forensic Investigation of Impact Forces and Angles
**Z Skarupa, Kayla Kearns, and Lillian Cuka**
Mentors: Guofen Yu and Philip Lucas

This research investigates bone fractures and the replicability of fracture patterns under controlled conditions for forensic applications. Using porcine bones as human analogues, the study replicates fractures through mechanical loading and impact tests to assess the effect of variables such as force, angle, and velocity. Patterns are documented and compared using macroscopic examination and digital photography. The findings contribute to forensic science by enhancing the understanding of how mechanical forces influence bone breakage.

**CBSL 220**
Reliability and Validity: SWOT Analysis for Student in College of Business
**Erin Mulcahy**
Mentor: Nabarun Ghose

As a student, a SWOT analysis can be utilized as a self-assessment tool to evaluate strengths, pick out weaknesses, identify opportunities for growth, and pinpoint potential career threats. Although different types of SWOT analyses are useful, the most trustworthy and accurate SWOT analyses are based on reliability and validity. Reliability in a SWOT analysis means that the internal and external factors are consistent evidence from trustworthy data. Validity in a SWOT analysis means that the internal and external factors are an accurate measure of performance with meaningful interpretations of data. Research was completed in order to create a SWOT analysis for a student in the College of Business focused on reliability and validity.

**DAVIS 181**
Risk and Protective Factors of Children in Foster Care That Foster Resilience
**Destiny Johnson**
Mentor: Robin Walters-Powell

This study found what factors help boost or hinder resilience within foster children at Specialized Alternatives for Families and Youth (SAFY) of Findlay, Ohio. Research has shown that children transitioning in and out of care are vulnerable, but if there are factors that help boost resilience, they tend to do very well in care. The hypothesis was tested through a mixed methods approach using a semi-structured interviewing format and using the Brief Resilience Scale (BRS) and additional interviewing for demographic information to accompany findings.

# *2025 Student Art and Design Exhibition*

Lea Gallery, Virginia B. Gardner Fine Arts Pavilion

2025 Student Art and Design Exhibition
Mentor: Valerie Escobedo

Each year, the University of Findlay celebrates undergraduate students in the visual arts by presenting a Student Art and Design Exhibition. This is a juried exhibition that features work of students from a variety of majors across campus. There are nine different categories for media, and an awards judge selects the top work in each category for recognition at the exhibition reception and awards ceremony. Several students who have been selected for the show will be present in the Lea Gallery to answer questions and talk about the work they have on exhibit.

# *Poster Presentations*

**Poster: 1**

*Comparison of Oxygen Nebulization vs Metered-Dose Inhalation with Spacers for Bronchodilation in the Treatment of Acute Asthma in Pediatric Population

**Satheesh S. Gottipati, Tejaswi Klvns, Prasaswinee SL, Nandini P, Venkata Prasada Rao Ch., and Sahithi Chandarlapati**

Mentor: Chandra Sekar

This study was done to compare the effectiveness of Metered Dose Inhalation (MDI) with spacers versus oxygen nebulization (O2 NEB) for bronchodilation in the treatment of acute asthma among pediatric patients. Over a 6-month period, at a tertiary care hospital, 72 pediatric patients aged 1-12 years presenting with acute asthma exacerbations were enrolled. 36 patients received MDI treatment and another 36 received oxygen nebulization. Primary parameters evaluated included total pulmonary score, heart rate, wheezing reduction, oxygen saturation, accessory muscle use and respiratory rate. Results indicated that both MDI and O2 NEB were similarly effective in improving total pulmonary score, heart rate regulation, wheezing alleviation, maintaining oxygen saturation and reducing accessory muscle use. In conclusion, MDI is a cost-effective and comparably effective alternative to O2 NEB in treating acute asthma in pediatric patients, offering advantages such as greater patient comfort, quicker symptom relief and superior efficacy in respiratory rate regulation.

* Work to be presented at APHA 2025, Memphis, TN

**Poster: 2**

*A Prospective Observational Study on the Role of Early Endotracheal Intubation in Severe Metabolic Acidosis of Any Etiology at a Tertiary Care Hospital

**Satheesh S. Gottipati, Sravani J, Ramya K, Satyavathi Mantri, and Raju Badipati**

Mentor: Chandra Sekar

A 6-month prospective observational study was conducted in the Department of General Surgery of a tertiary care hospital to investigate severe metabolic acidosis, with a study population of 60 patients. The inclusion criteria comprised both male and female patients aged above 18 who were conscious or unconscious and diagnosed with severe metabolic acidosis of any cause. In non-intubated cases, the overall mortality rate for metabolic acidosis was 67.5%; however, this rate was reduced to 25% for early intubation. These findings emphasize the need for further multicenter research to better understand the effects of early intubation and its critical role in managing patients with metabolic acidosis.

*Work to be presented at APHA 2025, Memphis, TN

**Poster: 3**

Phylogenetic Analysis of American Dog Tick Phlebovirus

****Katie Engel and Kaylie McCann**

Mentor: Abby Kalkstein

Phlebovirus is an RNA virus transmitted through numerous vectors including Dermacentor variabilis, or the American dog tick. Here, we provide a phylogenetic analysis of phlebovirus using advanced inference methods to illustrate the genetic relationship of this virus with other members of the Phenuivirdae family.

**The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**Poster: 4**

Photooxidative Effects on the G-Proteins of G Protein-Coupled Receptors (GPCRs)

**Madison Cresanti, Claire Bachman, Madeline Coleson, and Kylin Heidrich**

Mentor: John Payton

G-Coupled Protein Receptors play a large role within cellular function. Prior studies indicated oxidative exposure alters the structure and function of GCPRs in the cell. Molecular analysis will give more insight into the mechanism of oxidation to GCPRs and the consequences of the disruption in the cellular membrane.

**Poster: 5**

*Synthesis and Characterization of Fluorinated Pyridazines and their Biological Applications

**Lauren Crutchfield and Benjamin Phillip Hall**

Mentor: Nathan Tice

Due to the widespread presence of heterocyclic ring structures in nature, fluorinated heterocycles are a major component of modern medicinal chemistry. The effect of heterocyclic moieties on chemical properties can impart synthetic molecules with useful drug-like characteristics. One such attractive heterocycle with medicinal applications is fluorinated pyridazines.

*Work to be presented at Spring 2025 ACS Conference.

**Poster: 6**

*Enhancing Community Health: Development of a Risk Assessment Tool for Overdose and Suicide Prevention

**Francesca Sferrella, Sarah Zimmerli, and Nicholas Kapolis**

Mentor: Timothy Burkart

This study developed a risk assessment scoring system for overdose prevention in Hancock county. By analyzing death reports from 2015-2023, the study identified key risk factors using statistical modeling. The tool aims to enhance early identification, guide interventions, and inform policy to improve public health outcomes.

*Work to be presented at the American Pharmacists Association Annual Meeting and Exposition - Nashville, TN - March 22, 2025

**Poster: 7**

*Assessing the In Vitro Activity of Novel Norethindrone Derivatives in a Small Panel of Prostate Cancer Cells

**Julian Sawaged, Charity Gottfried, Harbinder Dhariwal, Mathew McAvoy, Elizabeth Frazier, and Rayna Rodenkirchen**

Mentors: Ryan Schneider and Richard Dudley

Norethindrone derivatives were synthesized to target prostate cancer. One derivative showed consistent cytotoxicity across AR-positive and AR-negative cell lines, suggesting an androgen-independent mechanism. Ongoing studies aim to identify its cell

death pathway, guiding future molecule selection and scaffold optimization for potential synergistic combination therapies.

*Work to be presented at ASPET 2025 Annual Meeting, taking place April 3 - 6, 2025 in Portland, OR, USA.

**Poster: 8**
Hour of Code: Embracing the Future of AI
**Grant Bryan, Hassan Sesay, Zach Mitchell, Wesley Stinehelfer, Malea Bess, Grant Rider, Daniel Kamara, Chase Otto, Kayla Bennett, Benjamin Strohmaier, Eugene McCall, Lidia Laskova, Reilly Cozette, and Millie Berg**
Mentors: Mary Jo Geise and Helen Schneider

With generative AI's integration into our everyday lives, the future engineers involved with this technology will need to know how and when it should be used. We Choose Ohio First scholars took charge in this, teaching current high school students the ethics behind generative AI in an interactive dynamic experience.

**Poster: 9**
The Use of Aquatic Therapy in the Treatment of Low Back Pain: A Critically Appraised Topic
**Lindsay Griffith**
Mentor: Bart Welte

Low back pain is a commonly seen issue in people everywhere, but is a condition that can be helped through therapy. This research was done to examine the effectiveness of aquatic therapy on low back pain. Low back pain is a commonly seen issue in people everywhere, but is a condition that can be helped through therapy. This research was done to examine the effectiveness of aquatic therapy on low back pain.

**Poster: 10**
Your Brand, Your Website: The Best Platform For You
**Morgen Long**
Mentor: Harley Ferris

Professionals have many choices when it comes to a platform for promoting themselves. However, it can be daunting to decide on one, and disappointing when held back by limited functionality. This presentation seeks to explain why it's beneficial to create a custom website to show off personal brand.

**Poster: 11**
*Stay Sexy and Don't Get Murdered: A Rhetorical Analysis of True Crime Podcast My Favorite Murder
**Jada Drees**
Mentor: Sarah Fedirka

An examination of true crime podcast, My Favorite Murder, finds the two hosts use gossip-like conversation to disconnect the audience from the severity of the crime that has been committed. The study explores the idea of sensitivity within true crime and ethical bounds being pushed to draw in listeners.

*Work to be presented, as a poster, at the National Conference of Undergraduate Research (NCUR), April 7-9 in Pittsburgh.

**Poster: 12**
Preliminary Study of Muscle Physiology and Trauma
**Brynn Spicher**
Mentor: Justin Rheubert

Lacerations and strains disrupt muscles, causing inflammation and fiber damage. While lacerations may require surgery, strains are often healed with proper rehabilitation. Both injuries trigger muscular regeneration, but complications during this process can impair overall function. Proper treatment and understanding of physiological responses are vital to optimize the healing process.

**Poster: 13**
Correlation between Macroinvertebrate and Bacterial Communities
**Audrey Buskirk, Brynn Spicher, and Taryn Martin**
Mentor: Lauren Sandhu

Correlations between macroinvertebrate and bacterial communities in the Blanchard River Watershed reflect water quality and ecosystem health. Species diversity analysis revealed a strong relationship between pollution-tolerant macroinvertebrates and bacterial shifts, emphasizing the importance of integrated biomonitoring for effective conservation efforts.

**Poster: 14**
MAOA-L Biopsychosocial Factors In The Courtroom: How Do Genetic-Environmental Relationships Affect Legal Procedures For Evidence?
**Kaylee Davis**
Mentor: Vincent 'Gino' Coppola

The MAOA-L gene has been linked to violent, criminal behavior. However, the criminal justice system lacks procedure for considering behavioral genetic evidence. The current project aims to identify gaps in the study of MAOA-L with an eye towards eventual application to legal procedures and policies.

**Poster: 15**
Precision Beekeeping: Noninvasive Monitoring of Honey Bees Within the Hive
**Elizabeth Lindy, Yuliana Morgado, Rachel Kelly, Ashley Kiger, Summer Brown, and Kaitlyn Gannon**
Mentor: Lauren Sandhu

This study monitors temperature and relative humidity in bee hives in Findlay, Ohio, using BroodMinder, a minimally invasive monitoring system. By tracking these factors, we aim to predict colony behaviors and improve hive health and productivity, offering a tool to support honey bee sustainability in response to climate change.

**Poster: 16**
Analysis of Accelerants in Fire Debris Utilizing GC-MS
**Jessica Suchta**
Mentors: Philip Lucas and Nathan Tice

This research investigates the ability to identify accelerants involved in an arson case utilizing Gas Chromatography-Mass Spectrometry (GC-MS). Accelerants and accelerant mixtures were ignited to simulate potential evidence found in arson investigations, followed

by GC-MS analysis to determine if the known accelerants were correctly identified.

**Poster: 17**
Examining the Relationship Between Alzheimer's Disease and Hepatitis C Virus (HCV) Infection in People with Bipolar Disorder: A Retrospective Investigation
**Srijyothi Inampudi**
Mentor: Jenny Evans

This presentation investigates if having Hepatitis C Virus (HCV) increases the risk of Alzheimer's disease (AD) in people who also have bipolar disorder. Researchers reviewed old medical records of bipolar patients, comparing how often AD occurred in those with and without a history of HCV. They considered other factors like age, health issues, mental health history, and medications to see if these played a role. Since bipolar patients are more likely to have HCV and there's existing evidence linking HCV to cognitive problems, this study aims to determine if there's a connection between HCV and AD in this specific population. The results could help doctors better monitor and care for bipolar patients with HCV to catch signs of Alzheimer's early.

**Poster: 18**
Enhancing Chronic Disease Management through Artificial Intelligence-Driven Personalized Treatment Plans
**Keerthi Priya Aregudem**
Mentor: Jenny Evans

This research investigates the application of artificial intelligence (AI) to improve chronic disease management by personalizing treatment plans. The research addresses key questions on how AI algorithms can effectively refine treatment plans, the challenges of implementing AI in clinical settings, and ethical implications surrounding AI use. Preliminary findings indicate that AI-driven personalized treatments hold promise for enhancing patient outcomes, improving care efficiency, and supporting healthcare providers in decision-making. The study offers practical recommendations for integrating AI in healthcare practices and shaping future research directions, ultimately contributing to more effective and ethical chronic disease management strategies.

**Poster: 19**
Exploring the Impact of Electronic Health Records (EHRs) on Information Management in Mental Health Care
**Devesh Nayak Jatavath**
Mentor: Jenny Evans

While EHRs have become a key component of healthcare, their role in mental health care remains underexplored. This research examines how EHRs shape the way mental health professionals document, retrieve, and utilize patient data. By analyzing qualitative insights from mental health settings, the study highlights both the advantages and challenges of EHR adoption. The findings will contribute to improving EHR systems to enhance efficiency and patient care in mental health services.

**Poster: 20**
Impact of Pharmacogenomic Testing for CYP2C19 Metabolism on SSRI Therapy Outcomes in a Clinical Setting
**Elaine Ng, Devyn Warnement, and Kristen Crutcher**
Mentors: Julie Oestreich and Jason Guy

Pharmacogenomics is the application of genetic testing to individualize medication regimens with the goal of preventing adverse reactions and optimizing drug efficacy. This study aims to utilize pharmacogenomic testing in a clinical setting in order to analyze and associate the impact of genetic variability on CYP2C19 metabolism to clinical response to SSRIs. The study also assessed the value of piloting pharmacogenomic testing and interpretations in clinical practice to improve therapeutic profiles.

**Poster: 21**
Leveraging NLP AI Models for Cancer Literature Analysis and Drug Target Discovery
**Vishaya Gundlapalli**
Mentor: Jenny Evans

The fast growth of cancer research literature poses substantial obstacles for researchers seeking to discover new treatment targets. Artificial intelligence (AI) models for natural language processing (NLP), like GPT-3, provide creative answers by effectively examining enormous datasets to find hidden patterns and trends. With an emphasis on their capacity to glean important insights from vast literature collections, this study investigates the use of NLP AI models in cancer research. The study emphasizes how NLP-driven literature reviews may help create tailored cancer medicines, expedite research procedures, and speed up knowledge discovery. To guarantee the accuracy and openness of AI-driven findings, ethical issues are also investigated, such as bias mitigation and data protection. The results of this study present a revolutionary method for literature analysis and treatment innovation, which advances the wider integration of AI in biomedical domains.

**Poster: 22**
The Use of Bicarbonate Supplementation on Athletic Performance: A Critically Appraised Topic
**Jordan Taylor**
Mentor: Bart Welte

Sodium bicarbonate ($NaHCO^2$) is a well-researched ergogenic aid that enhances high-intensity exercise performance by buffering acid buildup in muscles. It helps delay fatigue, improve anaerobic endurance, and optimize recovery by reducing lactate accumulation. Research suggests that sodium bicarbonate supplementation is particularly effective in sprinting, repeated high-intensity efforts, and endurance sports performed in hypoxic conditions. While beneficial, individual variability in response and gastrointestinal discomfort are factors to consider. This research reviews the mechanisms, key research findings, and best practices for supplementation.

**Poster: 23**
Optimizing Patient Portal Utilization to Enhance Patient Engagement and Clinical Outcomes
**Ayesha Nida**
Mentor: Jenny Evans
To enhance healthcare outcomes, this research investigates methods for maximizing patient portal involvement. The study offers insights into practical solutions for boosting portal usage by examining patient interactions and addressing usability issues. The study emphasizes the value of individualized interaction features, digital literacy assistance, and intuitive design. With practical suggestions for healthcare companies looking to improve the efficiency of their patient portals, the findings add to the expanding corpus of research on digital health tools and patient-centered care.

**Poster: 24**
Using Health Informatics to Support Patient-Centered Healthcare to Empower Patients and Improve Care.
**Bhavani Kolli**
Mentor: Jenny Evans

This presentation examines how health informatics can create a more patient-focused healthcare system. It will cover the use of tools like wearable devices, mobile apps, and patient portals to empower individuals to manage their health, improve access to care, and increase adherence to treatment plans. The presentation will also address ethical concerns related to patient data and the role of health informatics in reducing health disparities and improving access for underserved populations. Finally, it will showcase successful examples of patient-centered initiatives.

**Poster: 25**
Impact of Road Salt on Macroinvertebrate Communities in the Blanchard River Watershed
**Haven Knippen, Alexandra Arnholt, and Samantha Klug**
Mentor: Lauren Sandhu

Sodium chloride concentrations and macroinvertebrate communities were assessed at eight Blanchard River watershed sites. While road salt is effective in winter, it negatively impacts aquatic organisms and water quality. It reduces water's freezing point, elevates sodium chloride levels, and degrades aquatic ecosystems, impairing both environmental health and biodiversity.

**Poster: 26**
A Bountiful Harvest: Cultivating Innovation in the Campus Hoop House
Hannah Johnson, Gabrielle Reck, Owen McInnes, Z Skarupa, and **Caleb Acker**
Mentors: Lauren Sandhu and Brandan Gray

In 2025, students in the UF Sustainable Agriculture course will explore innovative techniques to enhance sustainability principles. Students will work to maximize yield so that produce donations to local food banks will continue.

**Poster: 27**
*Evolving Value Preferences in Romantic Relationships
**Matthew Warner**
Mentor: Jessica LaBuda

We compare a possible correlation between shared values and relationship satisfaction across several generations, from college students to elders. Which values appear to be preferred in romantic partners and have these changed over time? How do individual partners perceive their partner's values? We aim to answer these questions and more.

*Work to be presented at the Midwestern Psychological Association (April 10th-12th)

**Poster: 28**
An Examination of Psychological Characteristics on Academic Performance
**Justin Reed**
Mentor: Jessica LaBuda

This study investigates psychological characteristics and academic performance in college students, including the Five Factor Model and self-efficacy. Higher levels of conscientiousness are expected to be positively associated with academic performance. We also expect lower openness, agreeableness, and higher neuroticism will be associated with lower academic performance.

*Work to be presented at the Midwestern Psychological Association in Chicago, Illinois, April 10 -12, 2025

**Poster: 29**
Key Factor Considerations for AI-Based Perforation Prediction in EHRs
**Dharatiben Prajapati**
Mentor: Jenny Evans

This presentation looks at the important factors that affect the use of AI-based predictive analytics in electronic health records (EHRs), focusing on predicting perforation. It discusses key challenges, such as managing data, improving algorithm performance, and fitting AI into clinical decision-making. Attendees will learn about best practices to reduce risks, like data bias, and how to use AI in an ethical way. By connecting AI's potential with real-world healthcare needs, this research helps us better understand how predictive analytics can improve patient care while keeping trust and following regulations.

**Poster: 30**
**How Can Artificial Intelligence Enhance the Detection and Mitigation of Cyber Threats in Healthcare Systems?**
**Chandini Munagala**
**Mentor: Jenny Evans**

This study investigates how artificial intelligence could improve cybersecurity frameworks in healthcare systems. The growing digitization of hospital networks and patient records has made healthcare organizations prime targets for cyberattacks. To improve cyber threat identification and mitigation, this study explores AI-

driven technologies such automated response systems, machine learning-based predictive models, and anomaly detection.

**Poster: 31**
Global Health Challenges and Pandemic Preparedness: Strategies for a Resilient Future
**Arshitya Shaik**
Mentor: Jenny Evans

The COVID-19 pandemic brought to light the weaknesses in international health systems and the necessity of all-encompassing pandemic preparedness. Key issues in global health are examined, such as new infectious diseases, healthcare disparities, and the function of international cooperation in pandemic response. We evaluate methods for bolstering public health infrastructure, expanding vaccination delivery, and advancing early detection systems by examining previous and current outbreaks. We also look at the socioeconomic repercussions of pandemics and how crucial policy measures are to reducing them. Lessons acquired from COVID-19 and how they might guide future preparedness initiatives will receive special attention.

**Poster: 32**
How Artificial Intelligence Improves Patient Safety
**Pavan Sai Radha Krishna Sanga**
Mentor: Jenny Evans

This project explores how Artificial Intelligence (AI) is making healthcare safer by predicting and preventing risks. It reviews studies on AI's benefits, such as reducing errors in diagnosis and treatment, while also addressing concerns like data security and bias. The study compares AI applications in patient care, identifying key trends and research gaps. The goal is to help healthcare professionals and policymakers understand how to use AI responsibly to improve patient safety and overall healthcare quality.

**Poster: 33**
Horizontal Gene Transfer in Aquatic Environments
****Sierra Kirby**
Mentor: Bethany Henderson-Dean

Antibiotic-resistant bacteria pose a growing public health threat. When animals treated with antibiotics release resistant bacteria into waterways, both humans and animals can be exposed to these harmful microorganisms, making infections harder to treat. This infographic explores the origins of antibiotic resistance, how it spreads, and its impact on public health.

**The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**Poster: 34**
Integrating Health Information Exchange (HIE) with Artificial Intelligence (AI): Key Factors for Successful Implementation in Healthcare.
**Vandana Aligeri**
Mentor: Jenny Evans

This research explores the critical factors that contribute to the effective integration of Health Information Exchange (HIE) with Artificial Intelligence (AI. By analyzing key success determinants, this study aims to provide insights into optimizing the use of AI-driven analytics within the HIE framework. The findings will support policymakers, healthcare organizations, and technology developers in addressing barriers and leveraging opportunities for improving healthcare data exchange through AI applications. This research contributes to the ongoing discourse on digital transformation in healthcare and offers practical recommendations for fostering seamless HIE-AI integration.

**Poster: 35**
Navigating HIPAA's Privacy Rule in Health Research: Balancing Patient Privacy and Scientific Advancement
**Sharmista Gangavarapu**
Mentor: Jenny Evans

This research investigates the challenges researchers face in navigating HIPAA's Privacy Rule within the context of health research. The study focuses on understanding how researchers manage patient privacy concerns while ensuring the advancement of scientific discovery. Using a mixed-methods approach, qualitative interviews and quantitative surveys were conducted with health researchers to identify ethical dilemmas, compliance strategies, and the need for collaboration among stakeholders such as research institutions, healthcare providers, and regulatory bodies. The findings provide valuable insights into the intersection of privacy protection and health research, contributing to a deeper understanding of how to balance these two crucial elements in the healthcare research landscape.

**Poster: 36**
Advancing Chronic Disease Management: Exploring the Impact of Telemedicine on Accessibility and Communication.
**Jaya Surya Movva**
Mentor: Jenny Evans

This study examines how telemedicine affects healthcare accessibility and communication in chronic disease management. It explores telemedicine's role in managing chronic conditions like diabetes, hypertension, and mental health disorders, focusing on accessibility, communication, and clinical outcomes. While telemedicine improves medication adherence and patient satisfaction, concerns exist regarding diagnostic accuracy, data security, and confidentiality. Despite limitations such as recruitment bias and sample size constraints, the study employs rigorous methods to ensure validity. Findings will inform policies, enhance telemedicine integration, and support innovations in chronic disease management, ultimately advancing global healthcare accessibility and effectiveness.

**Poster: 37**
Enhancing Clinical Decision Support Systems (CDSS) Through Interoperability: Challenges and Opportunities
**Nikitha Reddy Pakeer**
Mentor: Jenny Evans

This study looks at how clinical quality, patient safety, and healthcare efficiency are affected by interoperability in Clinical Decision Support Systems (CDSS). Results point to advantages like improved data accessibility and fewer errors, as well as drawbacks like inconsistent standards and privacy concerns. Standardized protocols and business intelligence integration are two ways to maximize the efficacy of CDSS.

**Poster: 38**
Obesity in Adolescents: Addressing the Root Causes and Long-Term Consequences
**Shivani Kunta**
Mentor: Jenny Evans

This study highlights the value of a multidisciplinary approach while examining effective strategies for treating adolescent obesity. Through an analysis of previous studies, this study identifies important physiological, psychological, and social elements that impact the management of obesity. This promotes a mix of behavioral therapies, psychological support, and medical care to improve weight management results. In order to break the inherited pattern of obesity and prevent long-term health consequences, this study highlights the importance of early intervention in teenagers. The goal is to educate academics, policymakers, and healthcare providers on the best evidence-based approaches to reducing obesity and enhancing public health through this study.

**Poster: 39**
Privacy and Security Concerns in Telehealth
**Jalay Mehta**
Mentor: Jennifer Evans

This research explores privacy and security challenges in telehealth by analyzing firsthand experiences of healthcare providers and patients. Through direct data collection, it examines how environmental, technological, and operational factors impact the confidentiality of virtual healthcare interactions. The study aims to develop best practices and policy recommendations to enhance security in telehealth, ensuring safer and more reliable digital healthcare services. These findings will contribute to the ongoing discourse on telehealth security and help shape future advancements in remote patient care.

**Poster: 40**
The Benefits of AI-Enabled Clinical Decision Support Systems in Improving Healthcare Outcomes
Sai Anirudh Goud Undrakonda
Mentor: Jenny Evans

AI-enabled Clinical Decision Support Systems (AI-CDSS) enhance healthcare by improving decision-making, diagnostics, and workflows. This study explores their benefits, challenges, and future potential, emphasizing the need for transparency, trust, and effective integration. Findings provide insights for optimizing AI-CDSS to improve patient care and support healthcare professionals.

**Poster: 41**
Unlocking the Potential: Integrating Patient-Generated Health Data in Ambulatory Care Settings
**Tejasri Kotha Konda**
Mentor: Jenny Evans

Patient-Generated Health Data (PGHD) offers a more complete view of patient health beyond clinic visits by integrating data from smart devices into healthcare. This session explores how PGHD enhances personalized care, strengthens patient-provider relationships, and addresses challenges like security and accuracy to create a more connected and effective healthcare system.

**Poster: 42**
Exploring the Integration of Artificial Intelligence and Social Media in Healthcare
**Akhil Sainadh Reddy Ramala**
Mentor: Jenny Evans

This research explores the intersection of artificial intelligence and social media in healthcare, focusing on patient engagement, health communication, and professional ethics. By synthesizing key literature, the study evaluates AI's role in improving access to reliable health information while addressing concerns related to misinformation, privacy, and ethical considerations. Findings emphasize the need for policies ensuring responsible AI use in healthcare social media, contributing to ongoing discussions on digital health transformation.

**Poster: 43**
Exploring the Impact of Social Media on Mental Health
**Sravan Kumar Jaladi**
Mentor: Jenny Evans

This study examines how social media usage influences mental well-being, focusing on self-esteem, anxiety, depression, and loneliness. Findings highlight both risks, such as negative self-comparisons and fear of missing out (FOMO), and benefits like social support. The research informs strategies for responsible social media use to promote mental health.

**Poster: 44**
Secure and Privacy-Preserving Health Data Sharing for Research Collaborations
**Jhanitha Sree Konduru**
Mentor: Jenny Evans

This study examines privacy-preserving technologies like encryption, federated learning, and blockchain for secure health data exchange in research. Using expert interviews and policy analysis, it identifies key challenges and solutions, offering practical guidance for researchers, healthcare organizations, and policymakers to ensure ethical, legally compliant, and efficient data sharing.

**Poster: 45**
The Impact of Wearable Technology on Health Outcomes in Chronic Disease Management: A Systematic Review

**Lalitha Prathyusha Attaluri**
Mentor: Jenny Evans

Wearable technology is revolutionizing healthcare by enabling continuous health monitoring, enhancing patient engagement, and improving chronic disease management. This study systematically reviews existing research on the impact of wearables on key health outcomes, such as disease control, adherence to treatment plans, and cost-effectiveness. By identifying both benefits and challenges, this research contributes to understanding how wearables can be effectively integrated into healthcare practices to improve patient and provider experiences.

**Poster: 46**
Trust Dynamics in AI-Driven Healthcare Decision-Making: A Systematic Review
**Nikhil Reddy Chitkula**
Mentor: Jenny Evans

This initiative advances the study of trust dynamics in AI-driven healthcare decision-making by combining findings from a systematic review of relevant literature. The study highlights the importance of trust in the adoption and efficient usage of AI technologies by healthcare practitioners. The key concepts, theories, and disputes surrounding trust are reviewed, exposing major gaps in the literature, notably in terms of practicing healthcare professionals' opinions and the need for quantitative data. By reviewing studies published between 2020 and 2024, the project hopes to provide significant insights that can drive future research and practical initiatives aimed at increasing trust in AI systems.

**Poster: 47**
Integrative Supportive Care in Breast Cancer Survivorship: A Personalized Approach
**Sukanya Thotakura**
Mentor: Jenny Evans

This study expands on existing research on integrative supportive care practices in breast cancer survivorship. It highlights the importance of a tailored approach that blends conventional medical treatments with complementary therapies like exercise and emotional support. The study conducts a thorough assessment of the existing literature to identify effective therapies and their effects on the quality of life of breast cancer survivors. The findings will not only add to the scholarly discussion on breast cancer treatment but will also provide useful insights for healthcare practitioners looking to improve patient care through individualized treatment strategies.

**Poster: 48**
Evaluating the Impact of Telemedicine on Patients' Wellbeing
**Vasu Raju Manubolu**
Mentor: Jenny Evans

This study explores how telemedicine affects patient care, quality of life, and satisfaction with virtual healthcare. Through a literature review and evaluation framework, it examines telemedicine's benefits, challenges, and ways to improve it. The findings help doctors, policymakers, and developers create better, more patient-focused virtual healthcare solutions.

**Poster: 49**
Impact of Lifestyle Factors on the Risk of Type 2 Diabetes: Meta Analysis of Exercise Interventions and Secondary Behaviors
**Sai Teja Akula**
Mentor: Jenny Evans

This study investigates the impact of lifestyle factors, particularly exercise interventions and secondary behaviors, on Type 2 Diabetes risk and management. Using a meta-analysis of randomized trials, it evaluates the effectiveness of different exercise regimens and self-management strategies, aiming to optimize treatment approaches and improve health outcomes for individuals with T2DM.

**Poster: 50**
Ethical Considerations of Emerging Healthcare Technologies
**Chaitanya Bhimavarapu**
Mentor: Jenny Evans

This literature review examines the ethical implications of emerging healthcare technologies, particularly AI and telemedicine, on patient care and provider-patient relationships. It addresses key concerns like privacy, data security, and algorithmic bias, emphasizing the need for ethical guidelines, interdisciplinary collaboration, and regulatory frameworks to ensure equitable, effective healthcare.

**Poster: 51**
Advancing Disease Surveillance and Outbreak Detection Through Health Informatics
**Vidushi Reddy Bodagam**
Mentor: Jenny Evans

This research explores how health informatics contributes to disease surveillance, outbreak detection, and monitoring of population health. By examining existing studies, the project highlights the impact of real-time data analytics and integrated health systems in improving public health strategies. Technologies such as electronic health records and global tracking platforms enhance the ability to detect and respond to disease trends efficiently. The study underscores the importance of informatics-driven surveillance in strengthening emergency response efforts and enhancing disease prevention.

**Poster: 52**
The Role of Telemedicine in Enhancing Healthcare Delivery in Long-Term Care Facilities
**Jayanee Eloore**
Mentor: Jenny Evans

This project examines the role of telemedicine in long-term care (LTC) settings, focusing on healthcare professionals' perspectives. Using the Unified Theory of Acceptance and Use of Technology (UTAUT) framework, the study identifies key benefits and challenges associated with telemedicine adoption. The research aims to contribute to policy and practice by providing insights into strategies for improving telemedicine implementation in LTC facilities, ultimately enhancing healthcare delivery for vulnerable populations.

**Poster: 53**
Evaluating the Impact of Clinical Decision Support Systems (CDSS) on Healthcare Outcomes: A Systematic Review
**Neelima Machavarapu**
Mentor: Jenny Evans

This study investigates how Clinical Decision Support Systems (CDSS) improve patient outcomes and lower errors in healthcare. A systematic review was conducted to evaluate the effectiveness, usability, and problems of CDSS. Results indicate that when properly applied, CDSS can improve patient outcomes, decrease prescription errors, and increase clinical efficiency. But obstacles including usability problems, acceptance resistance, and system accuracy worries need to be solved.

**Poster: 54**
Leveraging Artificial Intelligence for Enhanced Diagnosis and Treatment of Rare Diseases
**Bhavya Gunti Baburao**
Mentor: Jenny Evans

This research continues the investigation into AI's impact on healthcare, specifically focusing on its applications in diagnosing and treating rare diseases. By reviewing existing literature, the study examines how AI-driven innovations, such as machine learning and predictive analytics, enhance clinical decision-making and improve patient outcomes. The research also highlights key challenges, including data limitations and ethical considerations, which influence AI adoption in healthcare. This project, in the end, gives insight into the evolving role of AI in medicine and provides recommendations for its responsible integration to support clinicians in the diagnosis and treatment of rare diseases.

**Poster: 55**
Predictive Modeling for Diabetes Mellitus Using AI: Enhancing Early Detection and Risk Assessment
**Prathyusha Rangineni**
Mentor: Jenny Evans

This study explores AI's potential in diabetes risk assessment and early detection using machine learning and patient data. It examines predictive variables and AI-driven clinical decision-making, showing AI's role in early diagnosis, improved patient outcomes, and personalized care to prevent chronic diseases and enhance diabetes management.

**Poster: 56**
Enhancing Clinical Decision Support with Natural Language Processing: Transforming Unstructured EHR Data into Actionable Insights
**Kavya Mithra Chinthala**
Mentor: Jenny Evans

By organizing and evaluating unstructured medical text data in Electronic Health Records (EHRs), this study aims to improve Clinical Decision Support Systems (CDSS) by utilizing Natural Language Processing (NLP) techniques. By employing deep learning models like CNNs and RNNs to extract important insights from patient histories, clinical notes, and diagnostic data, the study seeks to enhance clinical decision-making. A comparison with conventional machine learning methods, the ethical issues surrounding AI-driven decision assistance, and an assessment of the accuracy and efficiency of NLP models are some of the research's main focuses. The results demonstrate how NLP may revolutionize healthcare workflows, increase diagnostic precision, and improve patient outcomes.

**Poster: 57**
Guarding Health Data: Strategies to Combat Phishing in Healthcare
**Farzana Mahvash**
Mentor: Jenny Evans
This study discusses the growing cybersecurity threat of phishing attacks in the healthcare sector, highlighting the need for a dual approach combining advanced technological solutions with human-centric interventions. Key measures include email filtering systems, multi-factor authentication, and encryption protocols. The study also emphasizes the importance of employee awareness and training programs in fostering cybersecurity consciousness.

**Poster: 58**
Exploring Parent/Caregiver Knowledge of and Barriers to Kindergarten Success
**Alyssa Bame and Ainsley Sherman**
Mentor: Rebecca Herr and Andrea Sensel

The current study examines parents' skills, values, and perceived barriers regarding kindergarten readiness for their children aged birth to preschool. The results of this study will inform OTPs to better provide education and support for parents in preparing their children for kindergarten success despite the discrepancies among kindergarten readiness standards.

**Poster: 59**
Enhancing Patient Care in Health Care Settings
**Kalyan Chakravarthi Bathini**
Mentor: Jenny Evans

This study explores patient-centered care strategies to improve healthcare experiences, focusing on communication, patient involvement, health education, and technology. Findings highlight the importance of strong patient-provider relationships and digital tools. Challenges include balancing patient preferences with medical expertise, with further research needed on effective approaches across healthcare settings.

**Poster: 60**
Clinical Decision Support Systems: Trends, Maturity, and Key Implementation Barriers
**Maniteja Thalla**
Mentor: Jenny Evans

This study delves into the development, features, and challenges of Clinical Decision Support Systems (CDSS), focusing on trends, maturity levels, and barriers to effective implementation in healthcare environments. Using Simon's decision-making theory, the research evaluates CDSS in four phases, identifying gaps that limit their full potential. The findings show that most CDSS are centered on the early phases problem identification and solution

development while often overlooking the later stages of solution selection and implementation. Key features like rule-based logic, recommendations, and alerts are prevalent, but advanced functions such as personalized suggestions and better integration into clinical workflows are lacking. The study also highlights challenges such as unclear problem definitions, insufficient clinician participation, and technology adoption difficulties, which hinder the effectiveness of CDSS.

**Poster: 61**
Optimizing Machine Learning Models for Predicting Patient Readmission Rates and Identifying High-Risk Individuals: Strategies and Challenges
**Priyanka Alajpuri**
Mentor: Jenny Evans

This study investigates the optimization of machine learning (ML) models to forecast hospital readmission rates and identify high-risk people. Key predictors, efficient algorithms, and model validation methods are assessed through a methodical review of current research. Additionally, it tackles important issues including ethical dilemmas, data bias, and interaction with clinical procedures. The report outlines practical methods for creating precise, understandable, and accountable machine learning models by combining insights and addressing knowledge gaps. The results are intended to educate medical practitioners, scholars, and decision-makers on how to use machine learning to enhance patient outcomes and the standard of healthcare.

**Poster: 62**
Enhancing Telemedicine in Rural Areas: Bridging the Healthcare Gap
**Vineela Jakka**
Mentor: Jenny Evans

This study investigates the enhancement of telemedicine in rural areas to address healthcare disparities. It explores challenges such as limited access to healthcare facilities, provider shortages, and poor infrastructure. Using a mixed-methods approach, the study gathers insights from healthcare providers, patients, and community members to identify barriers and solutions for effective telemedicine implementation. The research aims to improve healthcare accessibility, quality, and outcomes in rural settings, with implications for reducing health disparities, enhancing disease management, and supporting the rural healthcare workforce.

**Poster: 63**
Cancer Genomics Exploration with AI
**Jashwanth Reddy Ardha**
Mentor: Jenny Evans

The cutting-edge area of AI-driven cancer genomics research is explored in this presentation. It emphasizes the revolutionary potential of AI in comprehending cancer causes, improving patient stratification, and developing precision oncology through a thorough examination of recent studies and literature reviews. The study summarizes studies on AI applications for multi-omics dataset analysis, novel biomarker discovery, and treatment outcome prediction. Researchers, clinicians, and policymakers striving for more efficient and individualized cancer care strategies might benefit greatly from this study's examination of the potential and difficulties of incorporating AI into cancer research and clinical practice.

**Poster: 64**
AI for Enhanced Dental Diagnosis
**Venkata Sai Ajith Kumar Motamarri**
Mentor: Jenny Evans

Dental diagnosis is essential for preventing and treating oral health problems, but traditional methods are prone to human error and inconsistencies. This study investigates how AI-powered image analysis can improve both diagnostic precision and efficiency in dentistry. The study explores how AI technologies, including machine learning (ML), deep learning (DL), and computer vision (CV), are reshaping dental diagnostics. These AI systems can identify dental issues often providing more accurate results than human clinicians. While AI shows great potential, the study addresses challenges such as the reliability, potential biases, and applicability of AI algorithms in diverse patient populations. Ethical concerns, including patient privacy and algorithmic biases, are also examined. Findings suggest that AI could outperform traditional methods, but additional research is needed to fully understand its long-term effects on patient care and clinical practices.

**Poster: 65**
Treating Amnesia Using AI: A Deep Learning Approach for Diagnosis and Classification
**Sai Sindhu Veeraragavula**
Mentor: Jenny Evans

Transient global amnesia (TGA) is a neurological disorder with sudden memory loss and unclear diagnostic markers. This study investigates the use of deep learning, specifically convolutional neural networks (CNNs), to analyze EEG data for TGA diagnosis and recurrence classification. By comparing CNN architectures such as AlexNet and VGG19, this research enhances diagnostic accuracy and proposes AI-driven approaches for personalized treatment strategies. Findings highlight the potential of AI in neurology, improving clinical decision-making and patient care.

**Poster: 66**
AI Algorithms in Dental Prosthesis (CBCT)
**Meghana Mandadi**
Mentor: Jenny Evans

The integration of Artificial Intelligence (AI) with Cone Beam Computed Tomography (CBCT) is revolutionizing personalized dental treatment. CBCT provides high-resolution 3D imaging of dental structures, while AI-driven algorithms enhance precision, efficiency, and customization in prosthodontic and orthodontic care. This study investigates the potential of AI-assisted design solutions to improve the fit and functionality of dental prosthetics. The research highlights the potential benefits, such as more efficient workflows, fewer errors, and reduced costs. However, it also addresses challenges such as data privacy, transparency in AI algorithms, and the need for clinical validation, which must be resolved to enable broader use of AI in dental practices.

**Poster: 67**
CAD/CAM and 3D Printing Technology in Dental Implants
**Meghana Manchala**
Mentor: Jenny Evans

This research examines how 3D printing and CAD/CAM are revolutionizing dental implant procedures by enhancing accuracy, effectiveness, and patient outcomes. The study examines quantitative data from peer-reviewed sources utilizing a systematic literature review and meta-analysis, with an emphasis on patient-reported outcomes, precision measures, and implant success rates. Even though digital dentistry improves surgical precision and treatment planning, issues with accessibility, cost, and consistency still exist. For optimizing digital workflows in implantology, the study offers researchers and doctors evidence-based insights.

**Poster: 68**
Epidemiological Trends of Rheumatoid Arthritis in Ohio's Population.
**Navya Chegudi**
Mentor: Jenny Evans

Rheumatoid arthritis (RA) is a growing public health concern, affecting many individuals across Ohio. By utilizing healthcare databases, demographic studies, and patient surveys, this research assesses RA prevalence, contributing factors, and treatment accessibility. The study identifies trends in disease incidence and management, aiming to inform evidence-based healthcare policies and interventions. It also examines healthcare disparities and the socioeconomic factors that influence disease progression and treatment adherence. This research seeks to provide actionable recommendations that can support public health efforts and improve healthcare services for RA patients in Ohio.

**Poster: 69**
Can AI Transform Cancer Diagnosis and Prediction for Earlier and More Accurate Detection?
**Saipavan Deeti**
Mentor: Jenny Evans

Artificial Intelligence (AI) is changing the way we detect and diagnose cancer, offering a faster and more precise way to identify the disease. This study looks at how AI-powered tools can analyze medical images and genetic data to help doctors catch cancer earlier and improve treatment decisions. While AI has the potential to transform cancer care, it also comes with challenges, including questions about accuracy, bias, and ethical concerns. By exploring AI's capabilities and limitations, this research aims to provide a clearer picture of how technology can be used responsibly to enhance patient care and improve survival rates.

**Poster: 70**
Infectious Disease Surveillance Using Artificial Intelligence: Enhancing Early Detection and Response
**Nikhil Kumar Kethavath**
Mentor: Jenny Evans

Infectious diseases pose significant public health threats, requiring timely detection and intervention to mitigate their impact. This research investigates the application of artificial intelligence (AI) in infectious disease surveillance, addressing limitations in traditional methods and exploring AI-driven approaches for early outbreak detection and predictive modeling. It also evaluates AI's feasibility and scalability in different healthcare settings. By leveraging diverse data sources, including electronic health records, digital media, and mobility data, AI enhances the accuracy and efficiency of surveillance systems. The findings contribute to global health security efforts by offering strategies to integrate AI into public health frameworks, ultimately improving disease response mechanisms and pandemic preparedness.

**Poster: 71**
Evaluating Small Mammal Ecological Interactions in Temerate Forest Canopies: Resource Partitioning Between Acer sacchrum and Quercus rubra.
**Melissa Laux, Chloe Morgan, Dillen Curnutte, and Quinn Carter**
Mentor: Benjamin Dolan

This research addresses the knowledge gap concerning forest canopy use by small mammals, specifically differences in the use of sugar maple and northern red oak during autumn and winter. Camera traps and midden samples collected from the canopy elucidate the interactions between tree species and small mammals within the canopy.

**Poster: 72**
Blockchain Technology for Health Data Security and Privacy of Electronic Health Records (EHRs)
**Thaslima Shaik**
Mentor: Jenny Evans

This research investigates the role of blockchain technology in securing electronic health records (EHRs) against cyber threats while ensuring regulatory compliance and interoperability. It evaluates blockchain's effectiveness in enhancing data privacy, integrity, and security within healthcare settings. Key findings highlight blockchain's potential to mitigate data breaches through cryptographic techniques, decentralized control, and immutable records. The study also discusses challenges such as computational resource demands, integration complexities, and legal considerations that could affect adoption.

**Poster: 73**
A Comprehensive Analysis of Existing Data on Wearable Technology's Effect on Health Literacy
**Lalitha Suddakattu**
Mentor: Jenny Evans

This study explores how wearable technology, including smartwatches and fitness trackers, affects people's health literacy by improving their capacity to get, comprehend, and use health-related information. Preliminary findings indicate that wearable technology may improve health literacy, particularly in groups more involved in managing their health. However, obstacles, including socioeconomic status, the digital divide, and technological constraints, need to be overcome for greater efficacy.

**Poster: 74**
The Preparedness of Pharmacy Students
**Devyn Warnement**
Mentors: Timothy Burkart and Shantanu Rao

All high school students come with varying levels of preparedness for a college education in pharmacy. This study aimed to help determine skills gained and coursework completed in high school that have best prepared our current pharmacy students for their college education.

**Poster: 75**
Mindfulness Interventions for Healthcare Providers
**Srivani Maturi**
Mentor: Jenny Evans

Healthcare providers face substantial stress due to the demands of their profession, leading to burnout and decreased well-being. This study reviews existing literature on mindfulness-based interventions (MBIs) and their effectiveness in reducing stress among healthcare professionals. Findings indicate that MBIs, including meditation and cognitive awareness practices, can significantly improve emotional regulation and resilience. By highlighting the benefits and challenges of MBIs, this research advocates for their integration into healthcare environments as a strategy for stress reduction and improved provider well-being.

**Poster: 76**
AI-Driven Detection of Dental Caries: Enhancing Diagnostic Precision and Patient Outcomes
**Prithi Atluri**
Mentor: Jenny Evans

This study explores the role of artificial intelligence (AI) in revolutionizing dental diagnostics, particularly for detecting dental caries. It investigates how AI can analyze X-rays and other dental images to identify caries earlier and with greater accuracy than traditional methods. The focus is on the use of machine learning models to enhance image recognition and precision in diagnosing proximal caries and early childhood caries (ECC). AI-powered diagnostic tools can improve diagnostic accuracy, increase sensitivity to enamel lesions, and support better treatment decisions. The study also examines how AI systems can facilitate more efficient and automated dental examination in clinical practice. Challenges include patient privacy, informed consent, and the need for unbiased, high-quality data to train AI models. These considerations are vital for ensuring the ethical implementation of AI in clinical settings.

**Poster: 77**
Leveraging Long-Read Sequencing, Functional Assays, and In Silico Modelling to Predict Pathogenicity of Genetic Variations in Cardiovascular Disease
**Rachana Chowdary Chinta**
Mentor: Jenny Evans

This research investigates the role of genetic variations in cardiovascular disease by leveraging long-read sequencing and in silico modelling to predict pathogenic mutations. The study builds upon prior research in genomic medicine, addressing key limitations in traditional sequencing methods. By integrating experimental and computational techniques, this project aims to improve risk prediction models, enabling early detection and tailored treatments for individuals with genetic predispositions to CVD. The findings contribute to the broader field of personalized medicine, highlighting innovative approaches for disease prevention and therapeutic discovery.

**Poster: 78**
Advancing Early Disease Detection in Healthcare: A Comprehensive Review of AI-Driven Clinical Decision Support Using Electronic Health Records
**Vishnu Srujitha Naralasetty**
Mentor: Jenny Evans

Artificial intelligence (AI) has had a profound influence on healthcare, particularly in clinical decision-making and the diagnosis of diseases at an early stage. This study provides an overview of AI-based clinical decision support systems (CDSS) based on electronic health records (EHR) for predictive analytics and risk analysis, and their effects on diagnostic accuracy, patient outcomes, and healthcare efficiency.
Although AI-based CDSS holds the potential to usher in revolutionary changes, data privacy, algorithmic bias, and ethical concerns hinder its widespread adoption. The present research assesses the existing reality of artificial intelligence in clinical decision-making, pointing out successful implementations, encountered challenges, and potential areas for enhancement and offering recommendations for the ethical adoption of AI in healthcare systems.

**Poster: 79**
Navigating Barriers to Health Information Exchange: Enhancing Collaboration for Improved Patient Care
**Midhun Narra**
Mentor: Jenny Evans

Health information exchange (HIE) is essential to modern healthcare systems, yet they face obstacles such as data privacy issues, legal limitations, and interoperability. The purpose of this study is to evaluate the literature in order to investigate these problems, how they affect teamwork, and how to improve healthcare results.

**Poster: 80**
Artificial Intelligence in Mental Health Intervention Assessment
**Tejasvi Reddy Velupula**
Mentor: Jenny Evans

Artificial intelligence is reshaping mental health intervention assessment, offering new avenues for accurate and accessible care. This presentation explores the role of AI-driven technologies in evaluating mental health interventions, addressing both their benefits and ethical considerations. By examining AI's effectiveness in comparison to traditional methods, this research highlights its potential to bridge treatment gaps, optimize resource allocation, and enhance mental health outcomes globally.

**Poster: 81**
Integrating Artificial Intelligence in Cardiovascular Disease Management: Challenges and Future Directions
**Sindhu Muthyala**
Mentor: Jenny Evans

This study explores the role of artificial intelligence (AI) in cardiovascular disease (CVD) management, emphasizing its impact on diagnosis, risk assessment, and treatment planning. AI-driven technologies, such as machine learning and deep learning, have shown significant promise in enhancing the accuracy and efficiency of CVD diagnosis and patient monitoring. However, their integration into clinical practice presents challenges, including data security, regulatory concerns, and ethical considerations. This research investigates these issues while proposing strategies for overcoming barriers to AI adoption in healthcare.

**Poster: 82**
Telemedicine
**Navya Kondakindi**
Mentor: Jenny Evans

This presentation explores the intersection of telepsychiatry, cultural competence, and rural healthcare. Drawing on a comprehensive scoping review, it investigates how telepsychiatric services can be adapted to meet the diverse cultural needs of patients in rural, underserved areas. The study identifies key components of culturally competent care, evaluates implementation and assessment strategies, and highlights methods for integrating cultural competence into clinical practice. By addressing these critical issues, the research aims to inform future initiatives, guide policy development, and influence clinical standards in tele-behavioral health, ultimately working towards more inclusive and equitable mental healthcare for rural populations.

**Poster: 83**
Data Analytics in Applied Healthcare
**Suhas Madaboina**
Mentor: Jenny Evans

This research examines the evolution of healthcare data analytics, focusing on temporal aspects for predicting disease at an early stage. Findings highlight the importance of temporal analysis of data in improving health outcomes by incorporating deep learning methods for predictive modelling. It also highlights the role of standardization gaps and new strategies to improve data accuracy. This study shows how data analytics has revolutionized healthcare by predicting diseases and improving efficiency.

**Poster: 84**
Evaluation of Telemedicine in Low and Middle Income Countries to Address Health Disparities
**Kannan Praneeth Chanakya Acharya**
**Mentor: Jenny Evans**

This study investigates the effects of telemedicine in low- and middle-income countries (LMICs), where the ongoing challenge of limited healthcare access is driven by physician shortages, geographic obstacles, and inadequate medical facilities. The study scrutinizes the elements affecting telemedicine acceptance, its effectiveness in augmenting healthcare accessibility, and its potential drawbacks, particularly concerning health inequalities. The findings indicate that while telemedicine significantly improves access to medical services, considerable challenges, including digital literacy, infrastructure deficiencies, and ethical dilemmas must be addressed to guarantee fair implementation.

**Poster: 85**
Nutritional Sources and their Effect on Dionaea muscipula and Nepenthes sanguinea Fluorescence Patterns
****Caleb Acker**
Mentor: Lauren Sandhu

The Venus flytrap, Dionaea muscipula, and pitcher plant, Nepenthes sanguinea, are carnivorous plants known for luring prey using traits including unique fluorescence patterns. The plants will be grown in the University of Findlay greenhouse, where they are fed four different nutritional sources. The color and pattern of the plant's fluorescence will be observed and studied.

**The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**Poster: 86**
Review of HIPAA
**Praveen Vasireddy**
Mentor: Jenny Evans

This research investigates the current challenges facing healthcare organizations in complying with HIPAA and maintaining patient confidentiality. Emphasizing the privacy and security requirements of HIPAA, this study underlines the obstacles in the form of inconsistent training programs, ambiguous legal requirements, and the complications that have emerged due to rapidly evolving digital health technologies. The research identifies factors impeding full compliance and explores how changing legislation, such as HITECH Act and 2013 Omnibus Rule, have continued to alter HIPAA. In response to such challenges, this research further broadens awareness about HIPAA regarding patient care while recommending real approaches for compliance improvement with its set rules.

**Poster: 87**
Telemedicine in Mental Healthcare: Opportunities and Challenges in Post-Pandemic Era
**Sowjanya Potti**
Mentor: Jenny Evans

This study explores the groundbreaking role of telemedicine in mental healthcare during the post-pandemic era, dissecting its advantages, difficulties, and future potential. It evaluates benefits like expanded accessibility and reduced stigma close by boundaries like advanced disparities and security risks. Recommendations and suggestions center around strategy advancements , mechanical progressions, and creative methodologies for feasible telehealth integrating in mental healthcare.

**Poster: 88**
Essential Factors in EHR Implementation and Acceptance
**Vishwanath Punna**
Mentor: Jenny Evans

This study identifies factors which influence the effectiveness of EHR systems within the medical field. Its three major areas of attention are the technology itself, the resources of an organization and support, and users including training and change resistance. The research aims at understanding how all these elements need to work together if EHRs are to be successfully implemented in clinics and hospitals. Apart from enhanced productivity and patient care, the findings will help healthcare companies to manage the transition to EHR systems effectively.

**Poster: 89**
Integration of Natural Language Processing (NLP) in Healthcare Electronic Health Records (EHR) for Informed Decision-Making
**Pavan Kumar Bejjenki**
Mentor: Jenny Evans

This study explores how Natural Language Processing (NLP) can enhance the efficiency and accuracy of Electronic Health Record (EHR) searches, by examining the challenges of manual management of healthcare data. This research explores key aspects hindering the implementation process and its adoption of NLP ideas in healthcare for EHR management and its analysis. The findings convey that NLP integration can help enhance informed decision-making in healthcare settings by reducing the cognitive burden on physicians and improving emergency response. This study contributes great insights into the significance of NLP in health informatics, focusing on both benefits and risks involved in its adoption, and making a way for future advancements in automized health information processing and analysis.

**Poster: 90**
AI Predictive Analysis to Improve Drug Discovery and Development in Pharmacy
**Ramabharathi Vatsavaya**
Mentor: Jenny Evans

This research explored how artificial intelligence (AI) can transform drug discovery and development in the pharmaceutical industry, addressing challenges like supply chain disruptions, clinical trial inefficiencies, and cybersecurity risks. It aimed to understand how AI-driven predictive modeling could enhance workforce skills, strengthen supply chains, improve data security, and streamline clinical trials. The study also examined AI's potential to overcome traditional limitations, such as slow testing processes and unpredictable compound behavior, while identifying gaps in knowledge around ethical concerns, biases, and long-term impacts. The findings revealed that AI accelerates drug discovery by analyzing large datasets, predicting drug efficacy and toxicity, and identifying new drug targets. However, challenges like data reliability, ethical issues, and the need for human oversight remain.

**Poster: 91**
Advancing Health Information Safety and Security: The Role of Artificial Intelligence in Addressing Cybersecurity Threats
**Sanjana Reddy Chandrapu**
Mentor: Jenny Evans

This study explores the role of artificial intelligence (AI) in enhancing the security of health information systems within the healthcare industry. The research aims to evaluate the effectiveness of AI technologies in preventing cyber threats and safeguarding sensitive patient data. Using qualitative methods such as interviews and surveys, the study seeks insights from healthcare professionals to understand the potential and challenges of integrating AI in cybersecurity strategies. The findings aim to provide actionable recommendations for healthcare organizations to strengthen their cybersecurity measures and improve data protection.

**Poster: 92**
Genetic Variability in CYP2C9*3 and Its Effect on Warfarin and NSAID Response in Communities in Northwest Ohio
**Megan Culver and Jessica Singh**
Mentors: Julie Oestreich and Jason Guy

Understanding pharmacogenomics is becoming increasingly crucial for pharmacotherapy adjustments and managing risks associated with certain gene alleles.[1] Genetic testing enables the detection of enzyme variations, which account for 95% of differences in treatment responses.[1] By identifying these variations, medication regimens can be personalized, leading to optimized drug therapy.[1] The Cytochrome P450 (CYP) enzymes are responsible for the metabolism of 80% medications on the market.2 These enzymes can impact bioavailability, half-life and overall action of medications.2 The CYP2C9*3 variant allele is known to significantly change the pharmacokinetic properties of non-steroidal anti-inflammatory drugs (NSAIDs) and warfarin in the human body, leading to changes in side effects such as bleed risks.3,4 Genetic testing was performed via buccal swab on patients in communities in Northwest Ohio to assess the presence of the CYP2C9*3 allele. The collected data was analyzed to determine potential clinical implications on dosage adjustments and bleeding risks.

**Poster: 93**
User Experience for Healthcare
**Shashank Chebrolu**
Mentor: Jenny Evans

User experience (UX) research prioritizes accessibility, safety, and usability to improve patient-centric digital health products. My study addresses privacy in data-driven personalization, strikes a balance between medical complexity and simplicity, and incorporates insights from mixed methods to close gaps in healthcare design. This strategy develops patient involvement, guides industry innovation, and enhances care delivery through specialized, user friendly solutions.

**Poster: 94**
Disparities in Stroke Mortality: A Data-Driven Analysis from Healthy People 2030
**Yojari Ramchandra Rajmane**
Mentor: Jenny Evans

This study examines stroke mortality disparities across sex and race/ethnicity using Healthy People 2030 data in the United States. Analyzing trends through R and Tableau, findings reveal higher mortality among males and certain racial groups, highlighting healthcare inequities. Insights from this research can guide targeted public health interventions and policy improvements to reduce disparities.

**Poster: 95**
Primary Educators' Attitudes Toward Teaching Environmental Issues in the Classroom
**Ainsley McCluer**
Mentor: Kerry Teeple

Educators play a huge role in creating a positive change for the future of the environment but a lack of resources and training along with personal and political opinions are holding back primary teachers from educating our young students on what is really going on in the environment.

**Poster: 96**
*Qualitative Analysis of the Viral Genome Harbored by Dermacentor variabilis in Hancock County, Ohio
****Paige Grum and Marisa Prisco**
Mentor: Abby Kalkstein

The spread of tick-borne diseases is a growing concern as climate change shifts tick populations. A study in Hancock County, Ohio (April–July 2024) found only Dermacentor variabilis (American Dog tick), contrary to historical data. This dominance raises questions about disease transmission, emphasizing the need for further molecular work on associated pathogens, particularly viruses.

*Work to be presented at NCUR 2025, Mon, Apr 7, 2025 – Wed, Apr 9, 2025, Pittsburgh, PA
**The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**Poster: 97**
*Efficacy and Safety of Post Dialytic Meropenem Dosing in Hemodialysis Patients: A Monte Carlo Simulation Study
**Sydnee Payer and Sierra Shoemaker**
Mentor: Susan Lewis

Current outpatient meropenem dosing for kidney failure patients on IHD is inconvenient and may not meet treatment goals. MCS evaluated thrice-weekly post-dialytic vs daily dosing. Findings suggest high-dose post-dialytic meropenem as an alternative, however daily dosing is needed for aggressive treatment. Further clinical studies are needed to validate these findings.

* Work presented at the American College of Clinical Pharmacy Annual Conference, Oct 11-15 2024: Phoenix, AZ. Will also be presented at the American Pharmacist Association Annual Conference Mar21-24 2025: Nashville, TN.

**Poster: 98**
Use of an Animal Model to Discover Novel Treatments for Comorbid Post-Traumatic Stress Disorder and Substance Use Disorder
**Leah Daulton**
Mentor: Anna Kruyer

Posttraumatic stress disorder has been observed to have a high comorbidity rate with substance use disorders. This study looked to test whether antagonism of the dopamine transporter could reduce cocaine intake in stresses animals.

**Poster: 99**
Glovebox Synthesis of Low-Coordinate Transition Metal Complexes in the Picolinato Ligand Environment
**Annabelle McMillan and D'alan Seyer**
Mentor: Maryam Yousif

The glove box is an essential instrument for manipulating and preparing air- and moisture-sensitive chemicals that would degrade in the presence of oxygen. This work focuses on exploring glovebox techniques for the preparation of transition metal complexes in the picolinato ligand environment.

**Poster: 100**
*Evaluating Student Pharmacists' Perceptions on Professional Development Through Service Learning
**Walker Elliott and Francesca Sferrella**
Mentor: Tonya Brim

This project evaluates student pharmacists' perceptions regarding the impact of a service-learning experience on their professional development. Through a 21-question and open-response de-identified online survey, student pharmacists were asked about their level of agreement on their perceptions of a service learning experience on their professional development.

*Work to be presented at OPA's 147th Annual Conference in Columbus, Ohio, on April 11th, 2025.

**Poster: 101**
OSA Adventures - Experiences Gained from Serving Abroad
**Allyson Patterson, Lauren Govert, Jeremiah Jackson, Morgan Koenig, Deborah Daniel, and Annika James**
Mentor: Elizabeth Pino

Oiler Serving Abroad is a cultural immersion and service project where students travel abroad to different countries, such as Costa Rica and Ecuador, experiencing different cultures and traditions. Learn about students' experiences abroad and the impact it had on them and those they served.

**Poster: 102**
Energy Production Considerations for the Efficiencies of Turbine Blade Designs
**Justin Mulholland and Jacob Mitchell**
Mentor: Justin Richardson

The purpose of this project is to find ways to improve the efficiency of wind energy production. This project will use different 3D-printed turbine designs to determine the most efficient one. Our prototypes will have different blade angles, blade counts, and center shapes to create the most efficient turbine blade design.

**Poster: 103**
Post-Exercise Recovery Habits
****Trinity Patterson**
Mentor: Stephanie Born and Bart Welte

This research is to determine the best method of recovery, physically and nutritionally. Physically, what are the most effective recovery methods for athletes after high-intensity workouts. Nutritionally, what foods/drinks properly replenish the body after intense exercise. Based off those criteria, what nutritional factors allow the body to become better refueled.

****The presenter is an Honors Program student. This presentation is part of their Honor's thesis.

**Poster: 104**
Monte Carlo Simulation to Determine Optimal Ceftolozane/Tazobactam Dosing in Critically Ill Patients Receiving Continuous Venovenous Hemofiltration
**Madeline Deiderick**
Mentor: Susan Lewis

Monte Carlo Simulation (MCS) used to determine optimal dose of Ceftolozane/Tazobactam (Zerbaxa) for patients who are critically ill and receiving continuous venovenous hemofiltration (CVVH). This is a novel antibiotic used for treated MDR (multi-drug resistant) Pseudomonas aeruginosa.

**Poster: 105**
*Selecting Over-the-Counter Medications: Comparing Perspectives of Healthcare and Non-Healthcare Professionals
**Victoria Pocos, Emma Bode, Abigail Hatch, and Emma Jones**
Mentor: Jenna Mills

Over-the-counter (OTC) medications are readily accessible and commonly used by patients; oftentimes, many options exist for patients to select from. This study sought to expand upon past research and ultimately determine who may benefit the most from a pharmacist's or student pharmacist's OTC medication education.

*OPA Annual Conference - Ohio Research Forum and Poster Session April 11, 2025, Columbus, OH

**Poster: 106**
Disentangling the Dual Pressures of Canopy Closure and Deer Populations on Forest Seedling Diversity
**Jenna Illig and Kaitlyn Adamic**
Mentor: Benjamin Dolan

Emerald Ash Borer invasions have transformed forests through Ash mortality, leading to increased dominance of shade-tolerant species like Sugar Maple. We hypothesize that recent canopy closure has had a stronger influence on seedling density and diversity than the long-term but potentially less significant effects of deer herbivory.

**Poster: 107**
Monte Carlo Simulation to Predict Optimal Ceftazidime/Avibactam Dosing Regimens for Patients With Kidney Failure Receiving Hemodialysis
**Andrew Bauman**
Mentor: Susan Lewis

The current outpatient dosing regimens for ceftazidime/avibactam (Avycaz) for patients with kidney failure on hemodialysis are inconvenient. Monte Carlo Simulation can predict whether a more convenient drug dosing schedule (thrice weekly) will still achieve the desired pharmacodynamic parameters in hemodialysis patients receiving Avycaz.

**Poster: 108**
The Effects of Ocean Acidification on Marine Organisms
**Haylee Winfield and Caitlyn Bing**
Mentor: Nathan Tice

Ocean acidification is an environmental issue within our ocean's ecosystem. This occurs when the ocean absorbs excess carbon dioxide from poor climate conditions. Organisms, like bioluminescent dinoflagellates, are affected by these rapid pH changes, altering their way of life. This research provides an insight on how bioluminescent organisms are affected.

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